



भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

820
23/11

सं० 37] नई दिल्ली, शनिवार, सितम्बर 16, 1989 (भाद्रपद 25, 1911)
No. 37] NEW DELHI, SATURDAY, SEPTEMBER 16, 1989 (BHADRA 25, 1911)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2

[PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE
PATENTS AND DESIGNS
Calcutta, the 16th September 1989

ADDRESS AND JURISDICTION OF OFFICES OF THE PATENT OFFICE

The Patent Office has its Head Office at Calcutta and Branch Offices at Bombay, Delhi and Madras having territorial jurisdiction on a zonal basis as shown below :—

Patent Office Branch,
Todi Estates, III Floor, Parel (West),
Bombay-400 013.

Telegraphic address "PATOFFICE".

The States of Gujarat, Maharashtra, and Madhya Pradesh, and the Union Territories of Goa, Daman and Diu and Dadra and Nagar Haveli.

Patent Office Branch,
Unit No. 401 to 405, III Floor,
Municipal Market Building,
Saraswati Marg, Karol Bagh,
New Delhi-110 005.

Telegraphic address "PATENTOFIC".

The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan and Uttar Pradesh and the territories of Chandigarh and Delhi.

1—247 GI/89

Patent Office Branch,
61, Wallajah Road,
Madras-600 002.

Telegraphic address "PATENTOFIS".

The States of Andhra Pradesh, Karnataka, Kerala, Tamilnadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Aminidivi Islands.

Patent Office (Head Office),
"NIZAM PALACE", 2nd M.S.O. Building,
5th, 6th and 7th Floor,
234/4, Acharya Jagadish Bose Road,
Calcutta-700 020.

Telegraphic address "PATENTS".

Rest of India:

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

Fees :—The fees may either be paid in cash or may be sent by Money Order or Postal Order, payable to the Controller at the appropriate Offices or by bank draft or cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

(889)

एकस्व तथा अभिकल्प

कलकत्ता, दिनांक 16 सितम्बर 1989

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ते में अवस्थित है तथा बम्बई, विल्ली एवं मद्रास में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा, टोडरी हस्टे
तीसरा तल, लोअर परले (पश्चिम),
बम्बई-400 013.

तार पता—“पेटेंटोफिस”

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य क्षेत्र
एवं संघ शासित क्षेत्र गोआ, दामन तथा दिव
एवं दावरा और नगर हवेली ।

पेटेंट कार्यालय शाखा,
एकक सं. 401 से 405, तीसरा तल,
नगरपालिका बाजार भवन,
सरस्वती मार्ग, करोल बाग,
नई दिल्ली-110 005.

तार पता—“पेटेंटोफिक” ।

हरियाणा, हिमाचल प्रदेश, जम्मू तथा
कश्मीर, पंजाब, राजस्थान तथा
उत्तर प्रदेश राज्य क्षेत्रों एवं संघ शासित क्षेत्र
चंडीगढ़ तथा विल्ली ।

पेटेंट कार्यालय शाखा,
61, बालाजह रोड,
मद्रास-600 002.

तार पता—“पेटेंटोफिस” ।

आंध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य क्षेत्र
एवं संघ शासित क्षेत्र पाण्डिचेरी, लक्षद्वीप,
मिनिकाय तथा एमनिवि वि द्वीप ।

पेटेंट कार्यालय (प्रधान कार्यालय),
निजाम पैलेस, द्वितीय बहुतलीय कार्यालय भवन,
5, 6 तथा 7 वां तल,
234/4, आचार्य जगदीश बोस रोड,
कलकत्ता-700 020.

तार पता—“पेटेंट्स” ।

भारत का अक्षेप क्षेत्र ।

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में
अर्पित सभी आवेदन पत्र, सूचनाएं, विवरण या अन्य
प्रलेख पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में ही प्राप्त
किए जायेंगे ।

शुल्क :—शुल्कों की अदायगी या तो नकद की जायगी अथवा
उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य धनावेश अथवा
डाक आदेश या जहाँ उपयुक्त कार्यालय अवस्थित है; उस स्थान
के अनुसूचित बैंक से नियंत्रक को भुगतान योग्य बैंक ड्राफ्ट
अथवा चेक द्वारा की जा सकती है ।

CORRIGENDA

In the Gazette of India Part III Section 2 dated 17-12-88
Page No. 1301 Column 1 Under heading “Cessation of
Patent”.

Delete No. 144664.

In the Gazette of India Part III Sec-2 dated 12-11-88 Page
No. 1200 Column 2 under heading “Cessation of Patents”.

Delete No. 144210

In the Gazette of India Part III Section 2 dated 9-10-88
dated 29-10-88, Page No. 1132, Column-1 under heading
“Cessation of Patents”

Delete No. 143806

In the Gazette of India Part III Section 2 dated 15-10-88,
Page No. 1083, Column 2, under heading “Cessation of
Patents”

Delete No. 143119, 143267

For No. 143184 Read No. 143284.

For No. 143173 Read No. 143373

In the Gazette of India Part III Section 2 dated 18-2-89,

Page No. 168 Column 2 Under heading “Cessation of Patents”

Delete No. 145872

(1) In the Gazette of India, Part III, Section 2 dated
24th June 1989 under the Heading ‘Complete Specification’
accepted on page 608 to 611.

(i) In respect of Patent No. 164873 (88/Bom/1986)—
In claim, line 35 read as $\tan(\alpha) > (\sigma m)/f \tan$
(90- β) and in line 38 read EFFECTIVE ONE OF
SAID APERTURES, SAID EFFECTIVE ONE OF
SAID APERTURES BEING CLOSEST TO SAID
SUPUPORT.

(ii) In respect of Patent No. 164875 (154/Bom/1986)
In claim, line 6 read as a is 1 or 2 and b is 1 or 2
with an activated metal having law.

(iii) In respect of Patent No. 164880 (15/Bom/1987)

(a) In claim line-6 read as haloalkoxycarbonyl-
group a phenyl group or a halophenyl group
provided.

(b) In claim, line 6 of second column of page-611
for R6, read as R5

(c) In claim, line-10 of second column of page
611, or Z read as Z2.

(d) Complete specification pages read—78 page drawings Nil.

(e) Drawings below the claim of patent No. 164880 deleted.

(2) In the Gazette of India, Part III, Section 2 dated 1st July, 1989 under the heading 'Application filed at Patent Office Branch, Bombay-400013 on page 621 & 622.

(1) In respect of Patent Application No. 131/Bom/1989, delete the comsiti priority date 17 MAY, 1988, Great Britain

In the Gazette of India (Page No. 1008) Part III Section 2 dated the 26th September, 1987 under the heading "Application for Patents filed at the Patent Office Branch, Madras".

In respect of Patent Application No. 469/Mas/87 Date of Patent filed read as 30th June 1987 for 29th June 1987.

REGISTRATION OF PATENT AGENT

The following person has been registered as Patent Agent.

SHRI SALIL MAHENDRA SHAH,
CRESCENT MANSION,
PANDITA RAMABAI ROAD,
BOMBAY-400 007,
MAHARASHTRA, INDIA.

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE, 234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20

The dates shown in the crescent brackets are the dates claimed under Section 135, of the Patents Act, 1970.

The 7th August 1989

636/Cal/89. Nico-Pyrotechnik Hanns-Jurgen Diederichs GmbH & C. An impact fuse having fore-bore safety.

637/Cal/89. Ozdi Kohasati Uzemek. Nozzle for blowing gases into the metal melt and method of application.

638/Cal/89. Solmex Ag. Pencil lead substance and a process for its production.

639/Cal/89. Armco Inc. Hot dip aluminium coated chromium alloy steel

640/Cal/89. Dyckerhoff & Widmann Aktiengesellschaft, Hutech Holzmann Umwelttechnik GmbH and Preussag Aktiengesellschaft. Process for making compost from waste matter present in liquid form, such as liquid manure (slurry).

641/Cal/89. Fried Krupp Gesellschaft Mit Beschränkter Haftung. Process and apparatus for the manufacture of ferrochromium.

The 8th August 1989

642/Cal/89. Chemical Waste Management Inc. Process for the catalytic treatment of wastewater.

643/Cal/89. Paul B. Pires. Transmission ratio changing apparatus and method.

644/Cal/89. General Electric Company. Combustor gas feed with coordinated proportioning.

645/Cal/89. General Electric Company. Means and method for reducing differential pressure loading in an augmented gas turbine engine.

646/Cal/89. Georg Fischer Ag. The procedure for the flush butt welding of highly carbonized materials, in particular cast iron with nodular graphite.

647/Cal/89. Lev Nikolaevich Strekalov, Viktor Alexeevich Kazakov, Boris Ivanovich Solokhin, Alexandr Ivanovich Sapozhnikov, and Alexandr Petrovich Sayapin. Excavating machine implements.

648/Cal/89. Wilhelm Hegenscheidt Gesellschaft MbH. A method for achieving chip separation of positive chip breaking while turning or otherwise machining work pieces.

The 9th August 1989

649/Cal/89. Shri Chunilal Kolay and Shri Nilmani Pathak.

650/Cal/89. W. Haking Enterprise Ltd. An improved Camera.

(Division of Application No. 563/Cal/89).

651/Cal/89. Hoechst Celanese Corporation. An Extrusion coatable polyester film, having an aminofunctional silane primer, an extrusion coated laminates thereof.

652/Cal/89. Hydraulics Corporation. Interfacially synthesized reverse osmosis membrane containing an amine salt and processes for preparing the same.

653/Cal/89. Plasticon Patents, S.A. Container.

654/Cal/89. Kerr-Megee Chemical Corporation. Compacts of spray dried water soluble compounds.

The 10th August 1989

655/Cal/89. PPG Industries, Inc. Process of making glass from batch materials.

656/Cal/89. Radiotekhnichesky Institut Imeni Akademika A. L. Mints Akademii Nauk SSSR. Flexible transparent catheter for phototherapy of tubular cavities.

657/Cal/89. Boris Afanasievich Tazhenkov, Evgeny Grigorievich Kachanov, Alexandr Nikolaevich Evstropov, Vladislav Mikhailovich Kotov, Evgeny Viktorovich Izm-Eleccerographic Image carrier member.

The 11th August 1989

658/Cal/89. E. I. Du Pont De Nemours and Company. Blend of cotton, Nylon and heat-resistant fibers.

659/Cal/89. E. I. Du Pont Nemours and Company. Comfortable fabrics of high durability.

The 14th August 1989

660/Cal/89. Maschinenfabrik Rieter Ag. Method of spinning by an open end technique and an apparatus for the application of this method.

661/Cal/89. Tatarsky Gosudarstvenny Nauchno-Issledovatel'sky I Proektny Institut Neftyanoi Promyshlennosti. Well Reamer.

662/Cal/89. Tatarsky Gosudarstvenny Nauchno-Issledovatel'sky I Proektny Institut Neftyanoi Promyshlennosti. Device for expanding pipes.

663/Cal/89. Eaton Corporation. Versatile control system utilizing a microcontroller.

664 Cal/89. Yen-Hui Lin. Packing case also usable for clothes-hanging and drawing purposes.

665/Cal/89. Westinhouse Electric Corporation. Improvements in or relating to electrical switching device with cover interlock.

666/Cal/89. Alphonsus Gerardus Gulielmus Veldman. Power tool driver system.

Convention dated 12th August, 1988 (Australia) (No. PUI 9804).

The 16th August 1989

- 667/Cal/89. Westinhouse Electric Corporation. Improvements in or relating to circuit breaker with arc gun.
- 668/Cal/89. Westinghouse Electric Corporation. Improvements in or relating to a system and method for efficiently generating power in a solid fuel gas turbine.
- 669/Cal/89. Henri E. Rosen. Adjustable girth shoe constructions.
- 670/Cal/89. Kerr-Mcgee Chemical Corporation. Nonpigmentary titanium dioxide powders.

APPLICATION FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, THIRD FLOOR, KAROL BAGH, NEW DELHI-5

The 24th July 1989

- 646/Del/89. Stein Heurtey, "Improvements to bell furnaces utilized in particular for the annealing of metallic reels under controlled atmosphere".
- 647/Del/89. Lenzing Aktiengesellschaft, "Process and arrangement for preparing a solution of cellulose".
- 648/Del/89. Union Carbide Corporation, "Treatment of petroleum cokes to inhibit coke puffing".
- 649/Del/89. Pfizer Inc., "A process for cloning genes by complementation of mutants in *Y. lipolytica*". [Divisional date 14th August, 1984].

The 25th July 1989

- 650/Del/89. Bharat Heavy Electricals Ltd., "A method of joining dissimilar materials".
- 651/Del/89. Bharat Heavy Electricals Ltd., "A pulverised coal burner".
- 652/Del/89. Council of Scientific & Industrial Research, "An improved furnace for melting of metals".
- 653/Del/89. Council of Scientific & Industrial Research, "A process for the preparation of thin transparent coloured film filters useful for the determination of anionic and cationic pollutants in aqueous solutions and a device therefor".
- 654/Del/89. Council of Scientific & Industrial Research, "An improved process for the preparation of cold bonded iron ore pellets using cement-silica binder".
- 655/Del/89. Council of Scientific & Industrial Research, "In situ soil pH meter with metallic sensor".
- 656/Del/89. Council of Scientific & Industrial Research, "A device for automatic stoppage of fluid loss due to removal of tap in a pipeline".
- 657/Del/89. Council of Scientific & Industrial Research, "Improvements in or relating to alkaline earth halophosphate based phosphors prepared from pyrophosphates for fluorescent lamps".
- 658/Del/89. Council of Scientific & Industrial Research, "Improvement in or relating to copper and aluminium activated zinc cadmium sulphide phosphors for use in color television picture tubes as green component".
- 659/Del/89. Council of Scientific & Industrial Research, "An improved process for the preparation of SnO_2 having high sintered densities".
- 660/Del/89. C.R. Bard, Inc, "Steerable guidewire with soft adjustable tip".

The 26th July, 1989

- 661/Del/89. Etablissements Vape, "Screw fixing device for a concrete construction element".
- 662/Del/89. Jean Guigan, "A device for performing biological analyses by immuno-enzymatic detection of antibodies or antigens in a serum".
- 663/Del/89. Jean Guigan, "Apparatus for performing biological analyses by chemical reaction on a serum".
- 664/Del/89. Jean Guigan, "A miniature laboratory for performing biological analyses by chemical reaction on a sample of blood".

The 27th July, 1989

- 665/Del/89. Gopal Nidhi Sharma, "Melting of natural rocks more precisely melting and casting of basaltic rocks".
- 666/Del/89. Nils Nessa, "Self-supporting interconnectable formwork elements for the casting of especially wall constructions and a method for the use of said formwork elements".
- 667/Del/89. FMC Corporation, "Herbicide trazolinones".

The 28th July, 1989

- 668/Del/89. Ashok Kumar Rai, "An exhaust muffler of silencer".
- 669/Del/89. Victory Company of Japan, Ltd, "Method and apparatus for transferring an electrostatic latent image".
- 670/Del/89. Telefonica De Espana, S.A., "Screened mask with withdrawing-retaining mechanism".
- 671/Del/89. Council of Scientific & Industrial Research, "An improved process for the microbial production of fungal metabolites".
- 672/Del/89. Council of Scientific & Industrial Research, "A process for the extraction and purification of saponin from *sapindus mukorosi*".
- 673/Del/89. Council of Scientific & Industrial Research, "A process for the preparation of a catalyst for effecting oxidation of N_2O to NO_2 ".
- 674/Del/89. Council of Scientific & Industrial Research, "An improved method for sintering of $\text{YBO}_2\text{Cu}_3\text{O}_{7-x}$ superconductor".

APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH AT TODI ESTATES, 3RD FLOOR, SUNMILL COMPOUND, LOWER PAREL (W), BOMBAY-13

The 17th July, 1989

- 201/Bom/89. Babubhai Nanubhai Patel & Rasiklal Nanubhai Qajera. Seed distributor machine.
- 202/Bom/89. Babubhai Nanubhai Patel & Rasiklal Nanubhai Qajera. Energy developer.
- 203/Bom/89. Babubhai Nanubhai Patel & Rasiklal Nanubhai Qajera. Plane car.

The 20th July, 1989

- 204/Bom/89. Indian Farmers Fertilizer Cooperative Limited. A process for producing chloride free NPK fertilizers.
- 205/Bom/89. Hindustan Lever Limited, 21st July, 1988, Great Britain, 3rd May, 1989, Great Britain. Detergent composition and process for preparing them.

The 21st July, 1989

206/Bom/89. Dr. Pradceep Bapusaheb Deshpande & Vipin K. Chawla. Algorithm and the control system thereof for controlling and monitoring single or multiple parameters employed in manufacturing process.

207/Bom/89. Mahendra Hansaji Panchal. Air cycle.

The 25th July, 1989

208/Bom/1989. Hindustan Lever Ltd. 26th July, 1988, Great Britain. Detergent composition.

209/Bom/1989. Samsung Electronics Co, Ltd. A contrast controller circuit for a television receiver.

The 27th July, 1989

210/Bom/89. Yasuo Taga. Commutator rotary-device and method of forming the armature winding of the device.

211/Bom/89. Surendra Singh Randhir Chauhan. Improved ball-cock assembly for water tanks and cisterns.

APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002

The 31st July, 1989

560/Mas/89. Ruddaraju Satyanarayana Raju. "Machine for parting off bar type job, by the revolving tool or tools".

561/Mas/89. Ottivakkam Natarajan Deverajan. A device for fuel consumed multiple cylinder four stroke reciprocating engines converted into fuel-less fluid fed multiple cylinder two stroke reciprocating engines.

562/Mas/89. Ottivakkam Natarajan Devarajan. A generator driven by fluid fed multiple cylinder two stroke reciprocating machine driven by electric motor as the like device.

563/Mas/89. Central Power Research Institute. Fluidised bed updraft multifuel biomass gasifier.

564/Mas/89. Minnesota Mining and Manufacturing Company Incorporated. High efficiency retro-reflective material.

565/Mas/89. Chevron Research Company. Hydrocracking catalyst and process.

566/Mas/89. EPOC Limited. Filter for microfiltration or for ultrafiltration or for verse osmosis, of fluids. (March 12, 1985; United Kingdom) (Divisional to patent No. 169/Mas/86).

The 1st August, 1989

567/Mas/89. Kitechnology B.V. Apparatus for forming plastics coated tube. (August 3, 1988; United Kingdom).

568/Mas/89. Ammonia Casale S.A. System for the improvement of reactors for the synthesis of methanol and reactors obtained therefrom.

569/Mas/89. Balanced Engines, Inc. Regenerative heat exchanger and system.

570/Mas/89. Ole-Bendt Rasmussen. Method and apparatus for helical cutting of a flexible tubular sheet of polymeric material.

The 2nd August, 1989

571/Mas/89. Minnesota Mining and Manufacturing Company. Method for manufacturing thin film integrated circuits resistant to damage during flexion.

The 3rd August, 1989

572/Mas/89. Henkel Kommanditgesellschaft auf Aktien. Process for removing contaminant elements from electrolyte solutions of useful metals.

573/Mas/89. Elkem a/s. Inoculant dispensing apparatus for molted metal ladle

574/Mas/89. American Telephone and Telegraph Company. Optical fiber cable for use in high temperature, contaminating environment. (August 6, 1988; Canada).

The 4th August, 1989

575/Mas/89. M. Mohamed Ali. Manual Korai Mat Weaving Loom.

576/Mas/89. M. Mohamed Ali. Differential lever weight system in pressure cooker.

577/Mas/89. Anstalt Gersan. Weighing a number of objects in succession. (November 16, 1984; Great Britain). (Divisional to Patent Appln. No. 913/Mas/85).

578/Mas/89. Anstalt Gersan. Weighing a number of objects in succession. (November 16, 1984; Great Britain). (Divisional to Patent Appln. No. 913/Mas/85).

579/Mas/89. Anstalt Gersan. Weighing a number of objects in succession. (November 16, 1984; Great Britain). (Divisional to Patent Appln. No. 913/Mas/85).

580/Mas/89. Kurimoto Limited. Apparatus for reconditioning table of roller mill.

581/Mas/89. Medicinska Akademia-Presidency and Nauchno-Issledovatelski Institut PO Epidemiologia I Microbiologia "N F GAMALEA". Method for preparing of pertussis protective antigens.

PATENTS SEALED

162793	163060	163578	163651	163654	163757	163758
163834	163863	163900	163901	163902	163903	163914
163915	163917	163968	164071	164073	164075	164078
164079	164083	164085	164087	164089	164090	164094
164095	164097	164098	164101	164103	164104	164105
164109	164110	164118	164119	164131	164136	164137
164170	164180	164182.				

CAL — 27

DEL — 16

MAS — 2

BOM — NIL.

AMENDMENT PROCEEDINGS UNDER SECTION 57

The amendment is proposed by Remsons Industries Limited at 88B, Government Industrial Estate, Kandivli (West) Bombay-400067, state of Maharashtra, India in respect of Patent application for Patent No. 162179 as advertised in Part III Section 2 of the Gazette of India, dated the 20th August, 1988 have been allowed.

AMENDMENTS PROCEEDINGS UNDER SECTION 57

Notice is hereby given that National Council for Cement And Building Materials (A body under Government of India), New Delhi has made an application on form-29 under section 57 of The Patents Act, 1970 for amendment of specification of their application for Patent No. 164316 (616/D/85) for A process for the preparation of magnesia spinal refractories. The amendments are by way of to define/describe the invention more clearly. The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office Branch,

Unit No. 401 to 405, 3rd Floor, Municipal Market Building, Saraswati Marg, Karol Bagh, New Delhi-110005, or copies of the same can be had on payment of usual copying charges.

Any person interested in opposing the application for amendment may file a notice of opposition in form-30 within three months from the date of this notification at Patent Office Branch, Unit No. 401 to 405, 3rd Floor, Municipal Market Building, Saraswati Marg, Karol Bagh, New Delhi-110 005. In the Written Statement of Opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

AMENDMENT PROCEEDINGS UNDER SECTION 57

Notice is hereby given that Giriraj Corporation, 107, Churchgate Chambers, New Marine Lines Road, Bombay-400 020 has made application under section 57 of the Patents Act, 1970 for amendment of the Complete Specification for Patent No. 159088 (287/BCM/1984) for "Improved intra-uterine contraceptive device and device for inserting it into uterine cavity". The amendments are in page No. 8 of the Complete Specification. The application for amendments and the proposed amendments can be inspected free of charge at the Patent Office Branch, Todi Estate, 3rd Floor, Sun Mill Compound, Lower Parel, Bombay-400 013, on any working day during the usual Office hours or copies of the same can be had on payment of the usual copying charges.

Any person interested in opposition the application for amendments may file the notice of opposition on the prescribed form 30 along with full written statement within three months from the date of this notification at the Patent Office Branch, Bombay.

If the full written statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice of opposition.

RENEWAL FEES PAID

143258	143326	143408	143666	144426	144427	144428
144429	144562	145165	145359	145409	145637	145684
145700	145759	145780	146111	146191	146315	146907
147047	147282	147631	147648	147835	147896	147905
147955	148081	148161	148475	148665	148709	148752
149057	149172	149236	149320	149716	149816	149965
150100	150102	150121	150122	150147	150580	150642
150694	150743	150908	150934	151118	151119	151197
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156711	156712	156836	156843	156839	156931	156987
156997	157055	157196	157232	157330	157360	157409
157445	157461	157518	157558	157570	157598	157687
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RESTORATION PROCEEDINGS

(1)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 159973 granted to Nirmal Pannalal for an invention relating to "an electric percussive drilling machine for boreholes"

The Patent ceased on the 12th December 1988 due to non-payment of renewal fees within the prescribed time and the cessation of the Patent was notified in the Gazette of India, Part III, Section 2, dated the 29-7-1989.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 16th November, 1989 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(2)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 161845 granted to Metallizing equipment Co. (Pvt) Ltd. for an invention relating to "a closed system air spray head".

The Patent ceased on the 28th February 1989 due to non-payment of renewal fees within the prescribed time and the cessation of the Patent was notified in the Gazette of India, Part III, Section 2, dated the 29-7-1989.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 16th November, 1989 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(3)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 162584 granted to Allen I. Bronstein for an invention relating to "Curved trough solar reflector".

The Patent ceased on the 9th May 1989 due to non-payment of renewal fees within the prescribed time and the cessation of the Patent was notified in the Gazette of India, Part III, Section 2, dated the 29-7-1989.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 16th November, 1989 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(4)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 162178 granted to Nirmal Pannalal for an invention relating to "a fail safe device for vertical elevators".

The Patent ceased on the 23rd March 1989 due to non-payment of renewal fees within the prescribed time and the cessation of the Patent was notified in the Gazette of India, Part III, Section 2, dated the 29-7-1989.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 16th November, 1989 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(5)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 158633 granted to Nirmal Pannalal for an invention relating to "Centrifugal Vortex Pump".

The Patent ceased on the 22nd October 1988 due to non-payment of renewal fees within the prescribed time and the cessation of the Patent was notified in the Gazette of India, Part III, Section 2, dated the 29-7-1989.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 16th November, 1989 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(6)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 159375 granted to Council of Scientific & Industrial Research for an invention relating to "a Compensated ultrasonic timer device to determine the wave velocity in solid/liquid under ground strata".

The Patent ceased on the 11th August 1988 due to non-payment of renewal fees within the prescribed time and the cessation of the Patent was notified in the Gazette of India, Part III, Section 2, dated the 29-7-1989.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th

and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 16th November, 1989 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(7)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 158552 granted to Design Engineering Pty. Ltd. for an invention relating to "apparatus for dispensing predetermined weight of material into containers".

The Patent ceased on the 24th August 1988 due to non-payment of renewal fees within the prescribed time and the cessation of the Patent was notified in the Gazette of India, Part III, Section 2, dated the 29-7-1989.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 16th November, 1989 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(8)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 161096 granted to Nirmal Pannalal for an invention relating to "a Welding electrode holder".

The Patent ceased on the 14th January 1989 due to non-payment of renewal fees within the prescribed time and the cessation of the Patent was notified in the Gazette of India, Part III, Section 2, dated the 29-7-1989.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 16th November, 1989 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(9)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 160002 granted to Nirmal Pannalal for an invention relating to "Elastomeric helical path rotary pump".

The Patent ceased on the 4th November 1988 due to non-payment of renewal fees within the prescribed time and the cessation of the Patent was notified in the Gazette of India, Part III, Section 2, dated the 29-7-1989.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 16th November, 1989 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(10)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 158208 granted to Nirmal Pannalal for an invention relating to "an impact absorbing locable radial suspension system for wheels".

The Patent ceased on the 15th October 1988 due to non-payment of renewal fees within the prescribed time and the cessation of the Patent was notified in the Gazette of India, Part III, Section 2, dated the 29-7-1989.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 16th November, 1989 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

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Business Forms Ltd.—161088.		Chemische Werke Huls Aktiengesellschaft.—161045.	
Busse-Machukas, V. B.—160971.		Chem-pro Corporation.—160409.	
But, A. S.—161406.		Chernikhov J. V.—161021.	
C		Chetal, K. K.—160750.	
Ccl Systems Ltd.—160946, 160947.		Chevron Research Co.—160128, 161388.	
C. Eugen Maier Metallverarbeitung GmbH.—159532.		Chicopee.—159175, 159421, 161331.	
C. F. Braun & Co.—161243.		Chief Controller Research & Development, Ministry of Defence, The.—158914, 159025, 159318, 159833, 159860, 159892, 159893, 159904, 159905, 159906, 160071, 160076, 160351, 160443, 160689.	
C-I-L-Inc.—159183, 160073.		Chief Engineer Research and Development, All India Radio.—159698.	
CPC International Inc.—160378, 160786.		Children's Hospital Medical Centre.—158911.	
Cra Exploration Pty. Ltd.—159729, 159730.		Chitil, M. (Dr.).—159321.	
CRC Pipeline International, Inc.—160553, 160885.		Chitrao, V. S.—160615.	
Cable Belt Limited.—159743.		Chloride India Ltd.—160370.	
Calatayud, A. (Mrs.).—161081.		Chowdhury, A. (Mrs.).—160029.	
Camus Engineers Pvt. Ltd.—158752.		Chromalloy American Corp.—159627.	
Carborundum Universal Ltd.—159769.		Chubu Electric Power Company Inc.—161476.	
Carburetors Ltd.—160630, 160631.		Chuo Kagaku Co. Ltd.—159600.	
Card-O-Matic Pty. Ltd.—160558.		Ciba-Geigy A. G.—159209, 159370, 160418, 160920, 161181, 161231, 161351, 161366.	
Carrier Corp.—159136, 159499, 161037, 161040, 161551.		City University, The.—159056.	
Caruso, A. M.—161138.		Clark and Vicario Corporation.—158963, 159699.	
Castolin S.A.—159491, 160495.		Claude, G.—160600.	
Castrol Limited.—159379.		Clecim.—159890.	
Cem-Compagnie Electro-Mecanique.—159609.		Cledise International B.V.—159061.	
Cement Research Institute, of India.—159287, 159337, 159705, 159750, 160063, 160064, 160282, 161422.		Clermont, J. M.S.—158946.	
Centennial Jewellers Inc.—160398.		Clextral.—161377.	
Central Distillery & Breweries Limited.—159304, 160015.		Clinch River Corp.—158769.	
Centre Stephanois De.—159238.		Clogh, G.F.G.—159728.	
Recherches Mécaniques.—159460.		Coal Industry (Patents) Ltd.—160506.	
Hydromecanique Et.—160803.		Colgate Palmolive Co.—159365, 159727, 159910, 160752, 161157.	
Frottement.—161219.		Colliva, G.—160559.	
Centrum Mechanizacji Gornictwa "Komag".—159355.		Combustion Engineering, Inc.—158853, 159557, 159615, 159913, 159981, 160802, 160820, 160824, 160931, 160991, 160992, 160998, 161124, 161339, 161554.	
Century Spinning & Manufacturing Co. Ltd. The.—161143.			

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C—Contd.		D	
Comin Co. Ltd.—160389.		D. B. A.—159168, 159862, 160091.	
Commander Appliances.—160511.		DCM Limited.—161504, 161564, 161565.	
Commissariat A L'Energie Atomique.—160099.		DLF Universal Ltd.—158814, 159016, 159252, 159463, 161217.	
Compagnie Electro-Mecanique.—160639.		Dr. Beck & Co. AG.—159587.	
Compagnie Europeene Du Zirconium Cezus.—159949.		Dr. C. Otto & Comp. GMBH.—158919, 158981, 161043.	
Compagnie Francaisi' Des petroles.—160099.		Dr. Werner Freyberg Chemische Fabrik.—160123.	
Compagnie Francaise D'etudes Et De Construction "Technip".—161272.		Daar, Y.—160822.	
Compagnie Generale De Constructions Telephoniques.—159070.		Daiichi Engineering Company, Ltd.—159737.	
Compagnie Industrielle Des Telecommunications Citalcatel.—160093, 160100, 160300, 160161, 160550, 160570, 160944, 160945.		Dalmia Cement (Bharat) Ltd.—161484.	
Concast Service Union Ag.—161520.		Dana Corporation.—158699, 159052, 160136, 160987, 161074, 161253.	
Continental Conveyor & Equipment Company Inc.—161455.		Dangra, S. D. (Smt.).—160687.	
Continental Disc Corp.—160204.		Dasgupta, B.—160937.	
Continental Gummi-Werke Aktiengesellschaft.—160678, 160704, 160921.		Das, L. K.—159027, 159343, 159397.	
Contractor, E. N.—160001.		Date, M. A.—161403.	
Contraves Ag.—160893, 160894.		David, T. J.—161529.	
Contraves Italiana S.P.A.—161449.		Davy McKEE (Stockton) Ltd.—158872.	
Cornell-hoskinson Mfg. Corp.—159199.		Dayal, R.—159047.	
Corning Glass Works.—159063, 160397, 160672, 161334, 161385.		Dayco Corporation.—159299, 160705.	
Council of Scientific & Industrial Research.—158816, 158837, 158840, 158863, 158878, 158976, 158940, 158975, 158990, 159026, 159041, 159048, 159049, 159146, 159164, 159186, 159210, 159281, 159282, 159283, 159286, 159316, 159317, 159341, 159361, 159375, 159405, 159406, 159407, 159408, 159409, 159410, 159411, 159412, 159413, 159414, 159419, 159420, 159431, 159432, 159433, 159461, 159476, 159540, 159595, 159733, 159734, 159758, 159815, 159881, 159926, 159961, 159964, 160011, 160038, 160043, 160088, 160098, 160138, 160141, 160149, 160164, 160168, 160169, 160170, 160194, 160197, 160212, 160256, 160264, 160274, 160279, 160355, 160360, 160402, 160403, 160404, 160474, 160478, 160479, 160507, 160520, 160535, 160536, 160541, 160579, 160668, 160748, 160753, 160754, 160755, 160756, 160829, 160830, 160841, 160844, 160908, 160957, 160974, 160979, 161054, 161055, 161056, 161135, 161150, 161158, 161168, 161271, 161321, 161329, 161373, 161376, 161411, 161412, 161452, 161457, 161527, 161542, 161545, 161570.		De S. K.—161002.	
Cover, J. H.—159569.		Decca Limited.—161261.	
Craig Research Ltd.—161214.		Degussa Aktiengesellschaft.—160848, 161201, 161552.	
Creusot-Loire.—159464, 159882, 160166, 160527, 161204, 161380.		Delersjo, J.—159924.	
Croll-Reynolds Engineering Co. Inc.—158801.		Delhi Cloth & General Mills Co. Ltd.—159342, 159344, 159345, 159346.	
Crompton Greaves Ltd.—160005.		Dell'orto S.p.A.—158890.	
Cross Company, The.—160804.		Dengensha Manufacturing Company, Ltd.—160919.	
Csepel Muvek Femmuve.—159468.		Dennison Manufacturing, Co.—159279, 159678, 159700.	
Csepel Muvek Tervezo Ks Kutato Intezete.—158913.		Dennison Plc.—161187.	
Culcey, D. M.—159602.		Denny, D.C.—160526.	
Cummins Engine Co. Inc.—161017.		Denny, G. E. E.—160526.	
		Denny, R. W.—160526.	
		Denny, W. M.—160526.	
		Desai, N. N.—158831.	
		Desai, P. W.—158799, 160617, 160647.	
		Desai, W. G.—160617.	
		Deshmukh, S. R. (Smt.).—160615.	
		Deshmukh, V. V.—161587.	
		Desikan, V. C. S.—159636.	
		Desche Babcock Werke Aktiengesellschaft.—159659.	
		Devlieg Machine Co.—159952, 161035.	
		Dewan Kraft System Pvt. Ltd.—159927.	
		Dewplan (ET) Limited.—159728.	
		Dharmik, D. K.—159380.	
		Dhonde, T. K.—159998, 161094.	
		Diab-Barracuda Ab.—159731, 159732.	
		Diamond Shamrock Chemical Company.—161386.	
		Didor Engineering GmbH.—159580.	
		Director, All India Institute of Medical Sciences, The.—160192, 160265, 160266, 160523, 160528, 160573, 160574, 161298.	
		Director, Central Pulp and Paper Research Institute, The.—159028.	

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Director, Deccan Sugar Institute, The.—161590.	
Director-General, Cement Research Institute of India, The.—161169.	
Director, Sir Padampat Research Centre, The.—159331.	
Director, Thapar Institute of Engineering & Technology The.—160291.	
Diversified Products Corporation.—159445, 160500.	
Dnepropetrovsky Meditsinsky Institut.—160044.	
Dnepropetrovsky Metallurgicheskyy Institut Imeni L. I. Brezhneva.—161349.	
Dobson Park Industries, Plc.—159656, 159712, 160677.	
Donetsky Politekhnikhesky Institut.—159566.	
Dorr-Oliver Inc.—159395, 159746, 159844, 160353, 160903, 161487.	
Dow Chemical Co., The.—158688, 158795, 158821, 159203, 159601, 159654, 159977, 160057, 160108, 160120, 160305, 160348, 160592, 160896, 161006, 161186, 161357, 161477.	
Dransfield, C. W.—160572.	
Dresser Industries, Inc.—158812, 161429.	
Dresser U.K. Limited.—159046, 160529.	
Duffaut, C. N.—159340.	
Duncans Agro Industries Ltd.—158663.	
Dunlop India Ltd.—159038.	
Dunlop Limited.—158903.	
Dunogues, J. P.—159340.	
Duolite International S.A.—159151.	
Duphar International Research B. V.—159423.	
Duracell Inc.—160477.	
Duracell International Inc.—160457, 160533.	
DuraiSwamy, N. N.—159190.	
Duraplug Electricals Ltd.—161528.	
Dutt, R. C.—161598.	
Dynachem Corporation.—160549.	
Dynamit Nobel Aktiengesellschaft.—159206, 159684, 160135, 160345.	

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E.I. Du Pont De Nemours and Company.—156705, 159328, 160224, 160807.
Eko Video Limited.—159157.
El. Po. S.r.L.—159651.
E. R. Squibb & Sons, Inc.—159044, 160955.
Eagle Air, Inc.—159436.
Earls way Team Valley.—160365.
Eastman Kodak Company.—161132.
Eaton Corporation.—160117.
Eirich, H.—160968.
Eirich, P.—160968.
Eirich, W.—160968.
Elecon Engineering Co. Ltd.—158753.

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E—Cont'd.	
Electronics Corporation of India Ltd.—159603, 160431.	
Electronic Display Network.—159326.	
Elektronikus Merokeszolekek Gyara.—161849.	
Elkem A/s.—159009, 159705.	
Elliot Grucenberg of Broadcom Co.—158951.	
Elliot O.S. (Jr.).—160598.	
Elpatronic AG.—158789.	
Emhart Industries, Inc.—160206, 160666.	
Enertec.—159450.	
Engelhard Corporation.—161251.	
Energie Froide International S.A.—159035.	
Energy Conversion Devices, Inc.—158820, 159006, 159155, 159575, 159704, 160085, 160151, 160220, 160221, 160571, 160670, 160768, 160836, 161137, 161171, 161224, 161241, 161384, 161512.	
Engelhard Corpn.—161556.	
English Electric Co. Ltd., The.—160889.	
English Electric Co. of India, Ltd., The.—159511.	
Enoxy Chimica S.P.A.—161008, 161009.	
Enteco Impianti S.p.A.—158969.	
Enterprise Gagneraud Pere & Fils.—159828.	
Environmental Elements Corporation.—159058.	
Envirotech Corpn.—159741.	
Erema Engineering Recyclingmaschinen-Anlagen Ges M.b.H.—159671.	
Erhard & Leimer GmbH.—160938.	
Esco Corporation.—159812, 160336, 160836.	
Esselte Pac Aktiebolag.—160288, 160904, 160961, 160975, 161285.	
Etablissements Griset.—158657.	
Etat Francais.—161067.	
Ethicon Inc.—159239, 159614, 159722, 160327, 161052, 161113, 161578.	
Etude Et Developpement En Metallurgie L.D.E.M.—158838.	
Euroceltique, S.A.—159389.	
Eutectic Corporation.—158956, 159453, 160996.	
Ex-cell-o-Corporation.—159815, 159865.	
Exxon Production Research co.—159677.	
Exxon Research & Engineering Co.—158915, 158933, 159284, 159288, 159334, 159835, 159929, 160096, 160335, 160465, 160585, 160589, 161151, 161503.	

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F.C.N. S.R.L.—159709.
F. Lli Marzoli & C. S.P.A.—158961.
F. L. Smidth & Co. A/s.—158722, 158856, 159327, 161197, 161553.
FMC Corporation.—159360, 159474, 160747.
Fabcon Incorporated.—160290, 160746, 160911.
Fabrics Italiana Magneti Marelli S.P.A.—158960.
Fabrique De Fer De Maubenge.—160743.
Fairchild Weston Systems, Inc.—160697.
Fairford Electronics Ltd.—161516.

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F—Contd.		G—Contd.	
Fared Drilling Technologies Inc.—160042.		GNB Batteries Inc.—159294, 159846, 159847.	
Federal-Mogul Corpn.—160275, 160276, 160277.		Gadekar, K.S.—161098.	
Fedotova, N. S.—160971.		Gadh, D.—160718.	
Ferag Ag.—160727.		Galipag.—161359.	
Ferranti P.L.C.—160388.		Gallaher Ltd.—159645, 159646.	
Ferring Service Center.—159607.		Gallay S.A.—161163.	
Ferrohome Limited.—158808, 159762.		Gandfrin, G.—160254.	
Fibre Dynamics Ltd.—160112.		Gandhi, C.S.—161594.	
Fadia S.p.A.—161176.		Gandhi, D.N.—160280.	
Firestone Tyre & Rubber & Co., The.—159014, 159457, 159471.		Gandhi, K.K.S.—160715.	
Firma Carl Still GmbH & Co. Kg.—159002, 159556.		Ganeshwade, N.D.—159999.	
Firma Theodor Hymmen Kg.—160637.		Garces, F.S.—160846.	
Fives Cail Babcock.—158720, 159051, 159426, 159493, 159577, 159637, 159661, 159798, 160122, 160417, 160639, 160875, 160999.		Gardner, N.A.—161293.	
Flakt Aktiebolag.—160119.		Garg, R.P.—160291.	
Flogates Limited.—159000.		Garg, T.—158823.	
Fluidised Combustion Contractors Limited.—161205.		Gasderstvenny Vsesojuzny Nauchno-Issledovatel'sky Institut Stroitel'nykh Materialov I Konstruktsy.—161027.	
Formica Corpn.—159001, 161047, 161401.		Gabelius, S.R.V.—159257, 160780, 161288, 161378.	
Fonderies Montupet.—159721.		Gemignani, A.—159596.	
Formulabs Industrial Inks Inc.—159013.		General Electric Co.—159232, 159508, 159536, 160695.	
Forsman, L.O.—160083.		General Electric Co., The.—159455.	
Foseco International Ltd.—161305.		General Electric Company of India Ltd., The.—159501.	
Foseco Trading A.G.—158955, 160343.		General Electric Company Plc., The.—159113.	
Fosrec International Ltd.—159383.		General Foods Corporation.—160281, 161568.	
Foster Wheeler Energy Corporation.—161173.		General Refractories Co.—161481, 161490.	
Foster Wheeler Energy Ltd.—161267.		General Tire & Rubber Company, The.—160828.	
Foster Wheeler Ltd.—160107.		General Signal Corporation.—159278, 159908, 160068, 161419, 161505.	
Foster Wheeler Power Products Limited.—159258.		Geodia.—159111.	
Franz Plasser Bhanbau-Maschinenindustrie-Gesellschaft m.b.H.—159121.		Geophysical Co. of Norway A.S.—160319.	
Freres, C.—159325.		Georg Fischer Aktiengesellschaft.—158851.	
Freres, M.—158848.		George K.—160426.	
Fried Krupp Gesellschaft Mit Beschränkter Haftung.—159490, 159915, 160152, 160228, 161226, 161571.		George, K. C.—160797.	
Freundrich, J. P.—159020.		George Moatti.—161498.	
Frodes S.A.—159364.		George, S.M.—159032.	
Fuller Company.—159813, 160560.		George, T.P.—160629.	
G		Gerald S.A.—159165.	
G.D. Societa' per Azioni.—158989, 159143, 159310, 159415, 159545, 159563, 159568, 159652, 159965, 160008, 160988, 161418.		Garrett Michael Sainsbury.—159850.	
Gea GmbH.—161049.		Geshwind, D.M.—161275.	
Gea Luftkühler-Gesellschaft Happel GmbH & Co. Kg.—160714.		Gesslauer, R.—159040, 160525.	
Gea Luftkühler-Gesellschaft Happel GmbH & Co.—161338, 161340, 161478.		Gestetner Manufacturing Limited.—159404, 160383.	
GKN Forgings Ltd.—158844.		Gestra Kondensatableter GmbH & Co. Kommanditgesellschaft.—160779.	
Gkn Kwikform Limited.—161269.		Gewerkschaft Eisenhütte Westfalia.—159919.	
Gkn Technology Ltd.—159259, 160562.		Ghorpade, N.—159636.	
GMT Norotny GmbH.—161126.		Ghorpade, V.—159636.	
		Ghosh, B.—160939.	
		Ghosh Dastidar, A.—159849.	
		Ghuwalewala, R.—159770.	
		Gidec S.A.—160406.	

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G—Concl'd.		H—Contd.	
Gillette Company, The.—159647, 159648, 16088, 160909, 161458.		Halder Topse A/s.—160593.	
Gimug Aktiengesellschaft.—160145.		Hansen, O.D.—158996.	
Giriraj Corporation.—159088.		Harbans Lal Malhotra & Sons Limited.—159205.	
Giuliano, G.—159873.		Harford Overseas Limited.—161572.	
Glasstech, Inc.—159802.		Harish Textile Engineers Pvt. Ltd.—159941.	
Glaverbel.—158669, 161156, 161421.		Harrison, J.S.—159875.	
Glaxo Group Limited.—160851.		Harsco Corporation.—159484, 161237, 161459.	
Gleizes, R.M.X.—159349.		Hawksley-Hill, P.A.—160272.	
Glickman, M.M.—160823.		Health Care Concepts, Inc.—160034.	
Gnanasekaran, A.—161440.		Hein, Lehmann AG.—160081, 161479.	
Godrej & Boyce Manufacturing Co. Pvt. Ltd.—159734.		Heinz Kaiser Aktiengesellschaft.—160208, 160461.	
Gomez, A.A.—159767.		Hemex, Inc.—159219.	
Gomez, L. (Mrs.).—159767.		Henkel Kommanditgesellschaft Auf Aktien.—159243.	
Goodyear Tire & Rubber Company, The.—158674, 159761, 160827, 160959, 161297.		New & Milan Development S.A.—158739.	
Gorkovsky Gosudarstvenny Meditsinsky Institut Imeni S.M. Kirova.—159053.		Hindustan Ciba-Geigy Ltd.—158780, 159785.	
Gorling, K.G.—159544.		Hindustan Lever Ltd.—158761, 158778, 158779, 158784, 158785, 158786, 158827, 159090, 158778, 159783, 159933, 159938, 159969, 159970, 159974, 160003, 160006, 160030, 160031, 160645, 160861, 160862, 161099, 161100, 161103, 161104, 161109, 161111, 161148, 161316.	
Gosudarstvenny Nauchno-Issle-Dovatel'sky Institut Khimii I Tekhnologii Elementoorganicheskikh Soekineny.—158988, 159350.		Hitachi Ltd.—158685, 159235, 159670, 160109, 161119, 161387.	
Gould Inc.—159109.		Hitachi Maxell Ltd.—161016.	
Graf & Cie AG.—160375.		Hitachi Zosen Corporation.—160806, 161511.	
Grant Engine Design and Sales Inc.—159158.		Hobson Process Limited.—159550.	
Granulite Ltd.—160591.		Hochstrasser, E.—161274.	
Greaves Foseco Limited.—159786.		Hochstrasser, J.—161274.	
Grebennikov, L.P.—161406.		Hoda, M.M.—159541.	
Grefco, Inc.—158882.		Hoechst Aktiengesellschaft.—158724, 158854, 158924, 159104, 159176, 159245, 159503, 159608, 159629, 159664, 159917, 160049, 160055, 160087, 160114, 160411, 160622, 160849, 161050, 161179, 161182, 161576.	
Grossman, S.J.—158691.		Hoechst Ceramtec Aktiengesellschaft.—160781.	
Grover, P.D. (Prof.).—159017, 159179.		Hoechst India Limited.—158764, 158805.	
Grumman Aerospace Corpn.—160504.		Hoerbiger Ventilwerke Aktiengesellschaft.—160856.	
Gruzinsky Selskokhozyastvenny Institut.—160927.		Hoesch Werke Aktiengesellschaft.—159914, 160537.	
Guez, M.—159717.		Hollingsworth (UK) Ltd.—159688.	
Guiffroy, M.—160379.		Honda Giken Kogyo Kabushiki Kaisha.—158979, 160468, 160770, 161216.	
Gujrat Energy Development Agency Anand Sarabhai.—161097.		Hooper, B.—15987.	
Gulf Engineering Ltd.—160888.		Hovione Inter Ltd.—160450.	
Gum Base Co. S.p.A.—160911.		Huang, H.C.L.—158834.	
Gunson's Sqrtext Limited.—161155.		Huemer, F.X.—160082, 161396.	
Gupta, B.K.—160733.		Huffy Corporation.—161121.	
Gupta, P.—160207.		Hughes Aircraft Company.—159011, 160332, 161497.	
Gupta, S.D.—159597.		Hurst, P.—159314.	
Gupte, M.M.—160000.		Hydrexco Societe Anonyme.—160638.	
Guseinov, M.A.O.—160018.		Hydroperfect International H. P. I.—160317.	
H		Hydro-Quebec.—161136, 161281.	
HMR Group Ltd.—160766.		Hylsa, S.A.—159559, 160895.	
Haak, R.V.D.—158670.			
Hackforth GmbH & Co. KG.—159401.			
Halcon SD Group Inc., The.—159018, 159114, 159117, 159399, 159751, 159962, 160831, 161163, 161324.			

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I	
I.C.A. S.P.A.—160788.	
Ici American Inc.—158865, 159825, 160698.	
Iel Limited.—159534, 160798, 160982.	
IMI Titanium Ltd.—160074.	
In. Gr. Ed-Industrie Grafiche Editorial S.P.A.—159753.	
Ion Exchange (India) Ltd.—159780, 159971, 161311, 161593.	
I.S.C. Smelting Limited.—160246.	
ITT Industries, Inc.—160347.	
Ignatenko A.D.—161021.	
Imax Systems Corporation.—158880.	
Imperial Chemical Industries Plc.—158868, 158869, 158873, 158899, 158940, 158970, 158995, 159166, 159188, 159217, 159303, 159347, 159392, 159462, 159465, 159466, 159469, 159549, 159564, 159868, 159902, 159963, 159987, 160013, 160043, 160075, 160139, 160146, 160577, 160767, 160839, 160901, 16190, 161414, 161489.	
Imphy S.A.—160548.	
Indian Aluminium Co. Ltd.—160990.	
Indian Council of Agricultural Research, The.—160213, 160214, 160215, 160505, 160842.	
Indian Drugs & Pharmaceuticals, Ltd.—158841, 159118, 159119, 159211.	
Indian Institute of Technology.—159065, 159066, 159196, 159227, 159397, 160444, 160528, 160573, 160728, 161445.	
Indian Jute Industries Research Asson.—159505, 159616, 159979.	
Indian Petrochemicals Corporation Limited.—159782, 160864.	
Indupack AG.—159848.	
Ingenieursbureau A.P. Van Den Berg B.V.—161018, 161360.	
Ingersoll Rand Company.—161456.	
Ingersoll-Rand (India) Ltd.—159942.	
Injectall Limited.—161463.	
Innovation Technique.—159270.	
Institut Cerac S.A.—160041.	
Institutul De Cercetare Stiintifica Si Inginerie Technologica Pentru Industria Electrotehnica.—161400.	
Institut Francais Du Petrole.—158822, 158852, 158947, 160344, 160484, 160527, 160623, 160854, 160928, 160953, 160954, 160986, 161394.	
Institut Kobernet Iki Akademii Nauk Gruzinskoi SSR.—161350.	
Institut Metalurgii Imeni A.A. Baikova Akademii Nauk SSSR.—159233.	
Institut Metallurgii Imeni So-Letia SSR Amademii Nauk Gruzinskoi SSR.—159057, 159059.	
Institut Teploi Massoobmena Imeni A.V. Lykova Akademii Nauk Belorusskoi SSR.—161262, 161525.	
Institute Merieux.—160634.	
Institute Po Metaloznanie I Technologia Na Metalite.—159558.	

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Institut Ciezkiej Syntezy Organicznej Blachownia.—159123.	
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International Paint Public Limited Company.—159178.	
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Interox.—161154, 161416.	
Ireco Chemicals.—159667, 160428.	
Ishizuka, H.—159263, 161259.	
Isover Saint-Gobain.—159055, 159841, 161084.	
Isover Saint-Gobain. "Les Moroirs".—159985.	
Isovolta Ostereinchische Isolierstoffwerke Aktiengesellschaft.—158759.	
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JBL Incorporated.—161076.	
J & P Coats Limited.—159230, 160078.	
J. Ray MacDermott & Co. Inc.—159169.	
Jackie Andre De Luyter.—160740.	
Jacobs Manufacturing Company, The.—16056, 161077.	
Jadhav, S. J. (Dr.).—160865.	
Jain B.—161112.	
Jain R. K.—161112.	
Jain, S. S.—159838.	
James Howden & Co. Ltd.—159062, 160067, 161287.	
James Mackie & Sons Ltd.—159776.	
Janssen Pharmaceutica N.V.—159576, 160024.	
Japan & Merck & Co. Inc.—159071.	
Jay Engineering Works Limited, The.—159042, 159043, 159696.	
Jay Machinery Manufacturing Company Private Limited.—158802.	
Jaysynth Dyechem Pvt. Ltd.—158767, 158836, 159972.	
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Jeune, G. L.—159145.	
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Jhawar, S.—161108, 161141.	
Jim Walter Resources, Inc.—159144.	
Johar, G. S.—158787, 160283.	
John, S. (Mrs.).—160972, 160973.	
Johnson & Johnson Products Inc.—159720, 161063.	
Johnson Matthey Public Ltd. Company.—160814.	
John Wyeth & Brother Ltd.—160056.	
John Zink Company.—161492.	
Joy P. T.—158783.	
Jurkov, L. I.—160971.	

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K-fuel/Koppelman Patent Licensing Trust.—161078.		Kiloskar Electric Co. Ltd.—159515, 159516, 160233, 160234.	
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Kabelschlepp Gesellschaft Mit Beschränkter Haftung.—160032, 160033, 161589.		Klein, Schanzlin & Becker Aktiengesellschaft.—159738, 160368.	
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Kabushiki Kaisha Iseki Kahatsu Koki.—160187.		Klockner Kumdoldt-Deutz Aktiengesellschaft.—158861.	
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Kabushiki Kaisha Meidensha.—158771, 159352, 159357, 159435, 160810, 160821, 160963, 161471.		Kollmorgen Technologies Corporation.—160555, 160742.	
Kabushiki Kaisha Showa Seisakusho.—161439.		Korea Advanced Institute.—159586.	
Kabushiki Kaisha Toyota Jidoshokki Seisakusho.—159522, 159523, 159639, 160240.		Korea Ginseng & Tobacco Research Institute.—159710.	
Kaiser Aluminum & Chemical Corporation.—159125.		Kore Engineering GmbH.—160910.	
Kalachari, C.—159197.		Korting Hannover Ag.—158983.	
Kalina, A. I.—159073.		Kosan Teknova A/s.—161307.	
Kalverkamp, K.—160736.		Kotadia, M. N.—159086.	
Kamaruddin, M.A.W.—158718, 159198.		Kotadia, M. V. V.—159086.	
Kamat, N.G.—159098.		Kotadia, R. M.—159086.	
Kamat, V. N.—161403.		Kotadia, V. M.—159086.	
Kanariwala, S. N.—160554.		Kovacs A.—160438.	
Kandasami, S.—160423.		Kozonlev J.I.—161021.	
Kandasubbu, P.—160674.		Kozponti Valto-es Hitel Bank Rt.—159520.	
Kandaswami, P.—159228.		Kraft Incorporated.—161200.	
Kanegafuchi Kagaku Kogyo Kabushiki Kaisha.—159103, 160488, 161189.		Kraftwerk Union Aktiengesellschaft.—159323, 161468.	
Kapcompany General Ltd.—159167, 159305, 159306, 159588, 159863, 160147, 160273, 161289.		Krauss-Maffei Aktiengesellschaft.—160328, 161071.	
Karl Fischer Industrieanlagen GmbH.—161283.		Krishnamoorthy, K.N.G.—160235, 160236, 160422.	
Kaushik, P. K.—160236.		Krishnamurti, E. G.—158719.	
Kemira Oy.—160852.		Krishnan, K.K.A.—158710, 159513.	
Kennametal Inc.—160174, 160540.		Krishnan, T.—158713, 159191, 160425.	
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Kerala Agricultural University.—160420.		Krupp-Koper GmbH.—158839, 158909, 160357, 160464.	
Kerala Gandhi Smarak Nidhi.—159193.		Krupp Polysius Aktiengesellschaft.—160565.	
Kerala State Electronics Development Corpn. Ltd.—159772.		Kruxproken Private Ltd.—160509.	
Kerb-Konus-Betriebs-GmbH.—159669, 159685.		Kubasov, V. L.—160971.	
Kerr Mcgee Corporation.—160354, 160498, 160499, 161447.		Kuberappa.—160396.	
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Khaitan Electricals Ltd.—159592.		Kuko, V. M.—160292, 161257.	
Khaikovsky Instrumentalny Zavod.—160044.		Kulkarni, P. K.—161584.	
Kharkovsky Politekhichesky Institut Imeni V.I. Lenina.—160044.		Kulkarni, V. P.—161584.	
Kher, R. N.—158977, 159060, 159067.		Kulker, S.A.—160575.	
Khosla Engineers.—159809, 159816, 160681.		Kumar, P. (Dr.).—160207, 160578.	
Kia Industrial Co., Ltd.—161438.		Kuo, T.H.—160596.	
Kidde Consumer Durables Cor.—159010.		Kurimoto Ltd.—160380.	
Kimerly-Clark Corpn.—159108.		Kuznetsov, L. D.—160292, 161257.	
Kinariwala, S. N.—158931, 159187.		Kyorin Pharmaceutical Co. Ltd.—159604, 160606, 160900.	
Kinergy Corpn.—160314.		Kyowa Hakko Kogyo Co. Ltd.—159606.	
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L'air Liquide Societe Anonyme Pour l'etude Et L'exploitation Des Procèdes Geoges Claude.—159619, 160210, 160371, 160739, 161131.		M N R Reprocessing, Inc.—161177.	
La Telemecanique Electrique.—158813, 159760, 159925, 159958, 159959, 160661, 160983.		M & T Chemicals Inc.—160454, 161053.	
L.G. Balakrishnan & Bros. Ltd.—160377, 160652.		M. W. Kclogg Co., The.—159764, 161166.	
LIM International S.A.—161122.		Macleod, D.G.—159718.	
LRC Products Limited.—160216.		Madan, A. K.—158678.	
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Laboratories P.O.S.—159333, 161149.		Madhok Construction Company (Pvt.) Ltd.—159184.	
Lachmann, H.P.—158871, 159064.		Magyar Vagon-Es Gepgyar.—158980, 159822.	
Lakshmanaperumal, R.—160703.		Mahajan, K. (Smt.).—161413.	
Lamy, J. E.—161415.		Mahajan, S.—161413.	
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Lars International S.A.—159135.		Mahindra Owen Ltd.—160620, 161145, 161146, 161147, 161318.	
Lasater, H.C.—159096.		Mahle GmbH.—160153.	
Latvlsky Gosudarstvenny Universitet Imeni Petra Struc-khi.—160289.		Majumdar, D.—158891.	
Leeson Corporation.—159448.		Malakhova, A.I.—160292.	
Lefebvre M.S.M.—160985.		Malakhova, E. Y.—160292.	
Lemarer, R.—161174.		Malaysian Rubber Producers' Research Association, The.—158994.	
Lempco Industries Inc.—159939.		Manchester R&D Partnership.—159475.	
Leningradskoe Proizvodstvennoe Elektromashinostroitelnoe Obiedinenie 'Elektrosila' Imeni S.M. Kirova.—159716, 160805, 161004.		Mane, J.D. (Miss).—160865.	
Lenox Institute for Research Inc.—158976.		Mangood Corporation.—159359.	
Lenzer Verwaltungs GmbH.—160989.		Mansanto Co.—160125, 160126.	
Lesieur-Cotelle & Associates SA.—159280.		Mantra Tube Ltd.—161360.	
Licentia Patent-Verwaltungs GMBH.—160229.		Marathe, 'A. B.—158782.	
Limca Research Inc.—160387.		Marathe, A. G.—158829.	
Linde Aktiengesellschaft.—160671, 160924, 161358, 161573.		Marconi Avionics Ltd.—160545.	
Lipha, Lyonnaise Industrielle Pharmaceutique.—158843, 159942.		Marconi Co. Ltd., The.—159180.	
Lipsome Company, Inc., The.—159300.		Maremont Corporation.—160640, 160641, 160642, 160857, 160858.	
Loevinger, R. P.—160177.		Marley Cooling Tower Company, The.—159573.	
Lohman, R.—159178, 159488.		Marotta Scientific Controls, Inc.—159106.	
Losinger AG.—161218.		Martinez, E.—160260.	
Lubrizol Corporation, The.—160502, 160840, 160942, 161061, 161202, 161260, 161461.		Masahiko, I.—160594.	
Lucas Industries Public Ltd. Co.—158953, 159201, 159657, 159682, 159774, 160245, 160364, 160633, 160791, 161190, 161356, 161363, 161442.		Maschinenfabrik Reinhausen Gebruder Scheubeck GmbH & Co. KG.—158930, 159348, 160532.	
Lummas Crest Inc.—159831, 159832, 161435.		Maschinenfabrik Rieter AG.—158729, 158747, 158954, 159231, 159264, 159551, 159719, 160371, 160653, 161183, 161184, 161192, 161352, 161354, 161355, 161431, 161441.	
Lurie, B.I.—160292.		Massey-Ferguson Services N.V.—158922, 159983.	
Lvovich, F.I.—160971.		Mathai, E.T.—161434.	
M		Mathew K.T.—160392.	
M.A.N.B. & W. Diesel A/c.—159382.		Mathoda, R.S.—160771.	
M.A.N. Maschinenfabrik Augsburgnurnberg Aktiengesellschaft.—159054, 159529, 160118, 160702, 161395.		Mathur, J. P.—160167.	
M. G. Commercial Pvt.—161469.		Mathur S.N.—159542.	
M K Electric Ltd.—159660.		Matsushita Electric Industrial Co., Ltd.—161408.	
		Mazanko, A. F.—160971.	
		Mccambridge, J.—160408.	
		Mcconway & Torley Corpn.—159984.	

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Mcdermott International Inc.—160785.		Mitsubishi Jukogyo Kabushiki Kaisha.—161118.	
Megraw-Edison Company.—159170.		Mitsuboshi Belting Ltd.—158723, 159640.	
McMaster, R. A.—159237.		Mitsui & Co. Ltd.—160346.	
Medical College of Ohio.—160054.		Mitsui SRC Development Co. Ltd.—160158.	
Med Inventio AG.—159535.		Mitsui Toatsu Chemicals Inc.—158774, 158775, 158776, 158777, 159033, 159099, 159439, 161432.	
Medscan B. V.—161467.		Mittal, A. K.—160568.	
Mefina S.A.—160783.		Mittal, B. L.—158877, 158884, 158885, 159674, 161506.	
Mehta, P. R.—161105, 161106.		Mobil Oil Corporation.—159034, 161093, 161364, 161436.	
Meiji Seika Kaisha, Ltd.—159071, 160873.		Mobil Solar Energy Corporation.—159899, 159900, 160262, 160563, 160639.	
Mercer, F. B.—161172.		Modern Balance Works.—161268, 161494, 161495, 161496.	
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Merck Patent Gesellschaft Mit Beschränkter Haftung.—160815, 161012.		Modi, D.V.—161536.	
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Messerschmitt-Bolkow-Biohm GMBH.—160538, 161162.		Mody, D. R.—158717.	
Metacon, AG.—159077, 160850.		Moffett, F. W.—161236.	
Metafuse Limited.—161409, 161410.		Mohindra Owen Ltd.—160036.	
Metal Box P.L.C.—159711, 160134, 160315, 160489, 160874, 161014.		Mokhov, I.V.—159173, 159837, 160519.	
Metallgesellschaft Aktiengesellschaft.—158987, 159050, 159125, 159229, 159570, 159579, 159611, 160853, 160866, 160995, 161245.		Molecular Diagnostics, Inc.—161278.	
Metallurgical & Engineering-Consultants (India) Limited.—160367.		Molins of India Ltd.—160340.	
Michael Voit GmbH.—159649.		Molotilin, B. N.—161257.	
Michelin & Cie (Compagnie Generale Des Etablissements Michelin).—160427, 160962.		Monitbrun, R. G.—160784.	
Michel, P.—161064.		Monsanto Company.—159074, 159092, 159292, 159531, 161448.	
Microdot Inc.—161070.		Montedison, S.P.A.—159132, 159874, 159876, 161041, 161472.	
Microwriter Limited.—160843.		Montmorency, D.G.D.—159083.	
Midrex International BV.—160813, 161128.		Moorthy, V.T.—159509.	
Miglani, B.D.—158678.		Morgan Construction Co.—159864, 161325.	
Miles Laboratories Inc.—159163.		Moscot, O.V.—161314, 161315.	
Mineral Deposits Ltd.—159817, 160773.		Moskovsky Nauchno-Issledovatel'sky Institut Mikrokhirurgii Glaza.—161470.	
Mineral Process Licensing Corp.—160133.		Moskovsky Nauchno-Issledovatel'sky Institut Tuberkuleza.—161127.	
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Minpro Pty Limited.—159775.		Mukherjee, A.K.—159502.	
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Mishra, A. (Sm.)—158742, 158743.		Muller-Spath, G.—161531.	
Mishra, C. (Sm.)—158742, 158743.		Multi-Arc Vacuum Systems Inc.—161075.	
Mishra, S.P.—158742, 158743.		Munshi, C.F.S.—159517.	
Mississippi Chemical Corp.—161191.		Munshi, J.K. (Capt.)—159517.	
Mitsuboshi Belting Ltd.—159224, 159226.		Murgai, M. P.—159027, 159343.	
Mistri, S. B.—159085.		Murthy, B.S.—160635.	
Mitra, M.—160713.		Musical String Research Bureau.—158888, 158889.	
Mitsubishi Denki Kabushiki Kaisha.—159249, 159779, 160306, 160310, 160496, 160795, 160916, 161010, 161101, 161476.		Mysore Snackfoods Ltd.—159518.	
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		NEFF Gewindespindeln GMBH.—159948.	
		NGK Insulators Ltd.—161476.	
		NI. Industries, Inc.—159877, 159889, 160284, 161048.	
		NPA Textilno Mashinostroene.—159800.	

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Nabisco Brands Inc.—159127, 159128, 159129.		Norman, J. J.—158964.	
Nagarkar, M.V.—161102.		Norman, R.—158964.	
Naik, A.D. (Mrs).—158756, 158757.		Norsk Hydro A.S.—158998, 159921, 161266.	
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Narayana, M.S.—160349.		Ole-Bendt Rasmussen.—158740.	
Narayanan, R.—158712.		Olis Elevator Company.—159024.	
National Aeronautics and Space Administration.—159225, 159424, 159745, 160313.		Olisov, V.F.—160292.	
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National Organic Chemical Industries Limited.—158763.		Osredecki, V.—161194.	
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National Research Development Corporation.—161541.		Otdelenie Vsesojuznogo Nauchno Issledovatel'skogo Instituta Elektrotermicheskogo Oborudovaniya V Gerode Khar-kove.—160907, 161262, 161525.	
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National Strech and Chemical Corporation.—159400.		Otsuka Chemical Co. Ltd.—160648.	
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Nauchno-Proizvodstvennoe Obiedinenie Po Tekhnologii Mashinostroenia "Tamjtmash".—158988.		Otto-Simon Carves Ltd.—159547.	
Necchi Societa Per Azioni.—161239.		Owens-Corning Fiberglass Corporation.—159076, 161383.	
Nederlandse Centrale Organisatie Voor Toegepastnatuur-wetenschappelijk Onderzoek.—161555.		Owens-Illinois Inc.—160391, 160679, 160792.	
Neste, OY.—159236, 159530, 159663.		P	
Nevatia, B.K.—159945.		Pim Ab.—161252.	
Newaz, M.A.—160025.		PPG Industries Inc.—161524.	
Newman, J.W.—158985.		PSC Freyssinet Ltd.—161185.	
Newport Pharmaceuticals International Inc.—159859.		PRB Nobel Explosifs.—159851.	
Newton, I.—159142, 160543.		Pal, J.K.—169672.	
New Way Chemicals & Polishes Pvt. Ltd.—159194.		Palitex Project-Company.—159658.	
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Nippon Clean Engine Research Institute Co. Ltd.—161254.		Patariya, M.K.—159112.	
Nippon Kokan Kabushiki Kaisha.—160231.		Paramount Glass Manufacturing Co. Ltd.—160914.	
Nippon Soda Company Ltd.—158923.		Parekh, B.M.—158835, 160035.	
Nippon Steel Corp.—159120.		Parimoo, P.—159459.	
Nirlon Synthetic Fibres & Chemicals Limited.—161317.		Parke, T. J.—161304.	
Nisshin Kogyo Kabushiki Kaisha.—161057.		Parker Pen Co., The.—160508, 160546.	
Nitrokemia Ipartelepek.—158727.		Parle Products Pvt. Ltd.—158832.	
Nitschke, J.S.—159091, 160111.		Parmar, D. J.—158828.	
Nitto Boseki Co. Ltd.—160599, 160914.		Paromec Engineering Ltd.—158703.	
Nitto Kagaku Kogyo Kabushiki Kaisha.—159336.		Parsons Controls Ltd.—159069, 160662.	
Noane, G.L.—161174.		Parthasarathy, M.—160399, 160627.	
Norddeutsche Affinerie AG.—160230.		Patariya, M. K.—159112.	
Normalair Carrett (Holi day) Limited.—160320, 160482.		Patel N.K.—159997, 160026.	
		Patel, S.—161097.	
		Pathak, B. K.—158686, 159004, 159005, 159008, 159438, 160026, 160696.	
		Pathak, N. (Sm).—158742, 158743.	
		Pathak, S. N.—160037.	
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Reckitt & Colman Products Limited.—160650.		Saft.—160165.	
Redland Technology Ltd.—160735.		SAP Industries.—161398.	
Regents of the University of California, The.—158925.		SCC Six-in-one Containers Co., S.A.—159898.	
Regents of the University of Minnesota.—161517.		SKF Bugellagerfa Briken GMBH.—158850.	
Rehmani, A.H.—160252.		SKF (U.K.) Limited.—159555.	
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Rest Vedt-Jhonson Inc.—160376.		SKF Steel Engineering AB.—160309, 160412.	
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Rhone-Poulenc Recherches.—160634.		SPBP Tea Industries Pvt. Ltd.—160020, 160021.	
Rhone Poulenc Sante.—159883.		Saarbergwerke Aktiengesellschaft.—161089.	
Ribault, L.L.—159340.		Sabelnikov V. A.—158817.	
Rechter Gedeon Vegyeszeti Gyer R.T.—160016, 160227, 160649.		Sacilor.—158658, 160466, 160467.	
Rico, M.A. G.—160940.		Saget, P.—159956.	
Riemer F.—160407.		Sahota, H.—158733.	
Riker Laboratories, Inc.—161391.		Saint-Gobain Vitrage.—160868, 161465.	
Rimrock Corporation.—161256, 161346.		Sala International AB.—160401.	
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स्वीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना दी जाती है कि सम्बद्ध आवेदनों में से किसी पर पेटेंट अन्दान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्गम की तिथि से 4 महीने या अग्रिम ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्रपत्र 14 पर आवेदन एक महीने की अवधि से अधिक न हों के भीतर कभी भी नियंत्रक, एकस्व

को ऐसे विरोध की सूचना विहित प्रपत्र 15 पर दे सकते हैं। विरोध सम्बन्धी लिखित व्यक्तव्य; उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथा विहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

"प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अन्तर-राष्ट्रीय वर्गीकरण के अनुरूप हैं।"

नीचे सूचीगत विनिर्देशों की सीमित संख्या में मुद्रित प्रतियाँ, भारत सरकार बुक डिपो, 8, किरण शंकर राय रोड, कलकत्ता में विक्रय हेतु यथा समय उपलब्ध होगी। प्रत्येक विनिर्देश का मूल्य 2/- रु. है। (यदि भारत के बाहर भेजे जाएँ तो अतिरिक्त डाक खर्च)। मुद्रित विनिर्देश की आपूर्ति हेतु मांग पत्र के साथ निम्नलिखित सूची में यथा प्रदर्शित विनिर्देशों की संख्या संलग्न रहनी चाहिए।

रूपांकन (चित्र आरेखों) की फोटों प्रतियाँ यदि हों; के साथ विनिर्देशों की टंकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता द्वारा विहित लिप्यान्तरण प्रभार (उक्त कार्यालय में पत्र व्यवहार द्वारा सुनिश्चित करने के उपरान्त उसकी अवायगी पर की जा सकती है। विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 4 से गुणा करके; (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 4/- रु. है) फोटों लिप्यान्तरण प्रभार का परिचालन किया जा सकता है।

Int. CLASS⁺: B 08 B 3/00; 9/00 165301

A SILENCER FOR A FAN IN A VENTILATION INSTALLATION.

Applicant: CHARBONNAGES DE FRANCE (ETABLISSEMENT PUBLIC), OF 9 AVENUE PERCIER, 75008 PARIS, FRANCE, A FRENCH COMPANY.

Inventors: (1) COLLOD PIERRE, (2) PAWLAK JEAN LOUIS.

Application No. 531/Mas/85 filed July 12, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

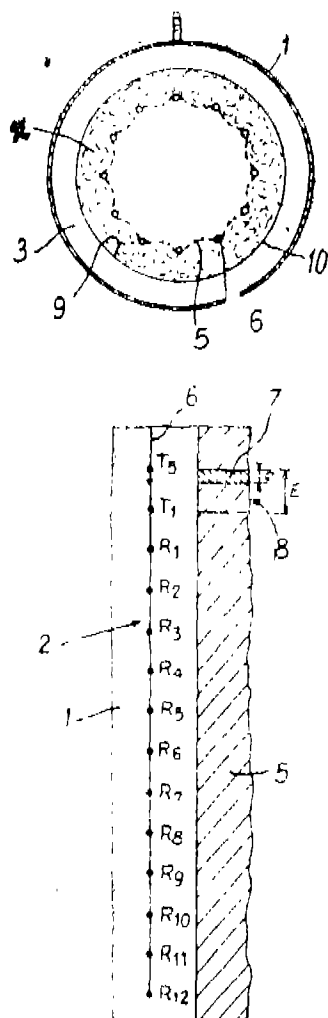
11 Claims

A silencer for a fan in a ventilation installation which is fed with dust-laden air, the silencer being regenerable in situ and comprising:

an outer casing of unperforated sheet metal;

the outer casing surrounding a layer of a sound-proofing material which is supported by a perforated material which is supported by a perforated inner wall; and

the outer face of the layer of soundproofing material being contained by a supporting wall which has holes therethrough and is separated from the outer casing.



Compl. specn. 5 pages

Drg. 2 sheets

Int. CLASS⁴ : B 06 B 1/00

165302

AN APPARATUS FOR THE PROCESSING OF ACOUSTIC SIGNALS.

Applicant : SOCIETE NATIONALE ELF AQUITAINE (PRODUCTION), A FRENCH BODY CORPORATE, OF TOUR ELF 2, PLACE DE LA COUPOLE LA DEFENSE 6 F-92400 COURBEVOIE, FRANCE.

Inventors : (1) GEORGES ARENS; (2) PHILIPPE STARON.

Application No. 538/Mas/85 filed July 15, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

6 Claims

An apparatus for the processing of acoustic signals which consists of :

means for transmitting acoustic waves;

means for receiving the waves after they have propagated in the formations surrounding a orchole, the said means of transmission and reception defining between them at least three acoustic paths of different lengths;

means for recording during each transmission the totality of the signals received on the means of reception;

means for grouping all the recordings in pairs such that in a given pair the two acoustic paths corresponding to the two recordings of the said pair have one common end and a non-common part;

means for cross-correlating the two recordings of each pair in order to obtain an elementary cross-correlation function, and selecting from the elementary cross-correlation functions a reference cross-correlation function which corresponds to a reference layer the thickness of which is greater than the geological layer of interest;

means for transforming the time variable of each elementary cross-correlation function other than the reference cross-correlation function in order to bring each time variable to the dimension of the time variable of the reference cross-correlation function; and

means for adding all the transformed cross-correlation functions and the reference cross-correlation function in order to form a sum cross-correlation functions of which the abscissas of the useful lobes are representative of the propagation times of the waves in the reference layer.

Compl. specn. 22 pages

Drg. 5 sheets

Int. CLASS⁴ : C 03 B 37/018

165303

A PROCESS FOR THE PRODUCTION OF FLUORINE DOPED SILICA OPTICAL FIBRE BY THERMALLY INITIATED VAPOUR PHASE DEPOSITION ON A SUBSTRATE AND AN OPTICAL FIBRE THEREOF.

Applicant : INTERNATIONAL STANDARD ELECTRIC CORPORATION, OF 320 PARK AVENUE, NEW YORK 1002, U.S.A. A U.S. CORPORATION.

Inventor : ANDREW MARSHALL.

Application No. 556/Mas/85 filed 18th July 1985.

Convention dated 25th July 1984 (No. 8418912; Great Britain).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

6 Claims

A process for the production of fluorine doped silica optical fibre by thermally initiated vapour phase deposition on a substrate comprising heating silicon tetrachloride together with a known fluorinating agent to a first temperature to produce an exchange reaction, producing vapours comprising silicon tetrachloride and silicon trichlorofluoride (SiCl_3F) having a higher content of silicon trichlorofluoride with increasing values of the said first temperature, combining the said vapours from the exchange reaction with oxygen at a second temperature which is lower than the first temperature to deposit fluorine doped silica on the substrate comprising mixed oxide silica and $\text{SiO}_{1-x}\text{F}_x$ to obtain fluorine doped silica optical fibre.

Compl. specn. 13 pages

Drg. 3 sheets

Int. CLASS¹: F 04 D 23/00; 29/58 165304**A COOLING DEVICE FOR COOLING THE GAS IN A MULTISTAGE COMPRESSOR.**

Applicant : MANNESMANN AKTIENGESellschaft, OF MANNESMANNufer 2, D-4000 DUSSELDORF 1, W. GERMANY; A WEST GERMAN COMPANY.

Inventor : WALTER KOLLER.

Application No. 567/Mas/85 filed July 23, 1985.

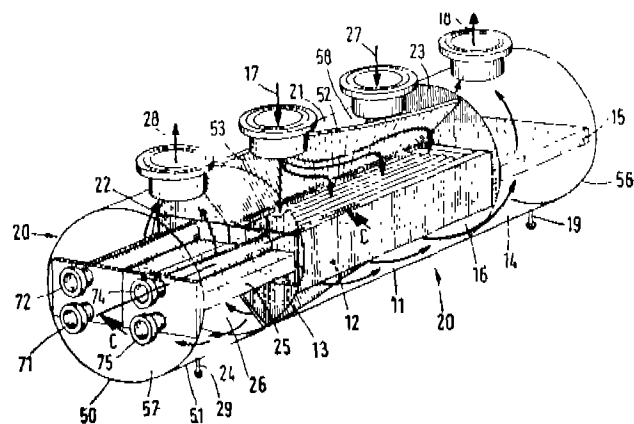
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

9 Claims

A cooling device for cooling the gas in a multistage compressor, said cooling device comprising :

- (a) a cylindrical housing having a first end wall, a second end wall, a central axis, and a cylindrical housing wall;
- (b) a first dividing wall perpendicular to the central axis of said cylindrical housing spaced from said first end wall of said cylindrical housing and a second dividing wall perpendicular to the central axis of said cylindrical housing spaced from said second end wall of said cylindrical housing, said first and second dividing walls dividing said cylindrical housing into a first cylindrical space, a central chamber, and a second cylindrical space;
- (c) a first cooling element located in said central chamber and extending parallel to the central axis of said cylindrical housing;
- (d) a second cooling element located in said central chamber and extending parallel to the central axis of said cylindrical housing and to said first cooling element;
- (e) a first water separator located in said first cylindrical space extending between said first end wall and said first dividing wall and dividing said first cylindrical space into a top half and a bottom half;
- (f) a second water separator located in said second cylindrical space, said second water separator extending between said second end wall and said second dividing wall and dividing said second cylindrical space into a top half and bottom half;
- (g) a first inlet tube which, leads from the multistage compressor and communicates with said central chamber adjacent said first cooling elements;
- (h) a second inlet tube which, leads from the multistage compressor and communicates with said central chamber adjacent said second cooling element;
- (i) a first outlet tube which, leads from said first cylindrical space to the multistage compressor;
- (j) a second outlet tube which, leads from second cylindrical space to the multistage compressor; and
- (k) a helical dividing wall which :
 - (i) is located in said central chamber;
 - (ii) is connected to said housing wall and to said first and second dividing walls;
 - (iii) runs axially parallel to the central axis of said cylindrical housing; and
 - (iv) extends between said first and second cooling elements; wherein;

- (l) there is first aperture in said first dividing wall through which the gas flows from said first cooling element to said first cylindrical space;
- (m) there is a second aperture in said second dividing wall through which the gas flows from said second cooling element to said second cylindrical space;
- (n) said helical dividing wall has a planar surface in the area between said first and second cooling elements and is helical in shape outside the area between said first and second cooling elements;
- (o) said helical dividing wall is composed of three straight-surface sections in cross-section perpendicular to the central axis of said cylindrical housing;
- (p) a first helical part of said helical dividing wall, said first and second dividing walls, said cylindrical housing wall, and the inlet surface of said first cooling element define a first free space;
- (q) a second helical part of said helical dividing wall, said first and second dividing walls, said cylindrical housing wall, and the inlet surface of said second cooling element define a second free space;
- (r) said first free space tapers off in the direction of said first dividing wall; and
- (s) said second free space tapers off in the direction of said second dividing wall



Compl. specn. 18 pages

Drg. 4 sheets

Int. CLASS¹: B 64 D 13/08 165305**AN AIR CYCLE COOLING APPARATUS FOR AEROSPACE APPLICATION.**

Applicant : NORMALAIR-GARRETT (HOLDINGS) LIMITED, WESTLAND WORKS, YEOVIL, SOMERSET, ENGLAND, A BRITISH COMPANY.

Inventors : (1) CHRISTOPHER FRANCIS ROOFTES, (2) RICHARD JAMES AXE.

Application No. 610/Mas/85 filed August 6, 1985.

Convention dated : August 10, 1984; (No. 8420426; United Kingdom).

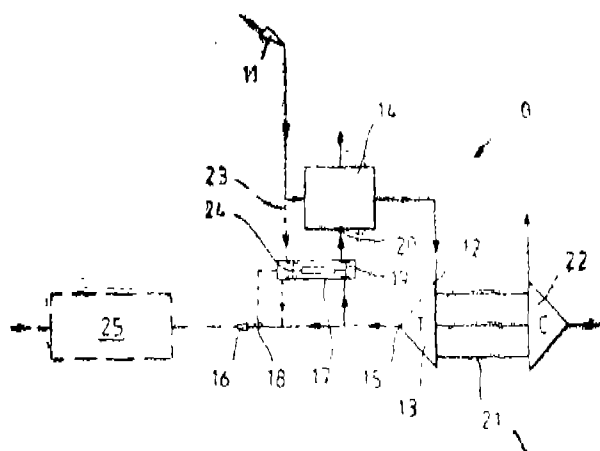
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

8 Claims

An Air cycle cooling apparatus for aerospace application comprising :

- a system air inlet;
- a system air outlet;

- a flow path connecting the system air inlet with the system air outlet;
- a regenerative heat exchanger and an air expansion turbine located in the flow path between the system air inlet and the system air outlet;
- a coolant air inlet to the regenerative heat exchanger; and
- an air flow control valve responsive to temperature of air at the air outlet for movement of a valve head controlling flow of system air cooled by the air expansion turbine into the regenerative heat exchanger by way of the coolant air inlet.



Compl. specn. 15 pages

Drg. 1 sheet

Int. CLASS⁴ : B01D 53/34

165306

A PROCESS FOR OBTAINING A SWEET GASEOUS STREAM FREE OF HYDROGEN SULPHIDE.

Applicant : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., A NETHERLANDS COMPANY, OF CAREL VAN BYLANDTILAAN 30, 2596 HR, THE HAGUE, THE NETHERLANDS.

Inventor : DONALD CRAIG OLSON.

Application No. 617/Mas/85 filed 7th August, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

4 Claims. No drawing

A process for obtaining a sweet gaseous stream free of hydrogen sulphide comprising :

- (a) contacting a gaseous stream containing hydrogen sulphide in a contacting zone at a pressure between 100 and 20 000 KPa and at a temperature between 20 and 80°C with an aqueous reactant solution containing an effective amount of iron (III) lignosulphonate to obtain a sweet gaseous stream and an aqueous mixture containing sulphur and iron (II) lignosulphonate;
- (b) removing separately the sweet gaseous stream and the aqueous mixture; and
- (c) regenerating the aqueous mixture for use in Step A.

Compl. specn. 14 pages.

Int. CLASS⁴ : C01B 31/36

165307

PROCESS FOR THE PRODUCTION OF SILICON CARBIDE.

Applicants : AGIP SpA, A COMPANY ORGANIZED UNDER THE LAW OF THE ITALIAN REPUBLIC OF CORSO VENEZIA, 16 MILAN, ITALY; and ANIC SpA, A COMPANY ORGANIZED UNDER THE LAW OF THE ITALIAN REPUBLIC OF VIA RUGGERO SETTIMO, 55 PALERMO, ITALY.

Inventors : (1) ANGEL SANJURJO, (2) KENNETH M. SANCIER, (3) IBRAHIM M. ALLAM.

Application No. 629/Mas/85 filed August 13, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

14 Claims

A process for the production of silicon carbide comprising the steps of :

- (a) forming a reaction mixture which at elevated temperature comprises a carbon source, silicon source, and at least one inorganic fluoride salt selected from sodium fluoride, potassium fluoride, lithium fluoride, barium fluoride, calcium fluoride, strontium fluoride, magnesium fluoride, aluminium fluoride, copper fluoride, lead difluoride, fluoro-silicates, fluoroborates or mixture thereof, the weight ratio of the inorganic fluoride based on the amount of silicon being from 0.25 : 1 to 20 : 1;
- (b) heating said reaction mixture for a sufficient time at a temperature of at least 750°C and not over 1600°C to cause the formation of silicon carbide; and
- (c) recovering silicon carbide from the reaction mixture by known methods.

Silicon carbide is used as an abrasive.

Compl. specn. 16 pages

Drg. 1 sheet

Int. CLASS⁴ : C08G 59/06

165308

A PROCESS FOR PREPARING A NOVEL EPOXY RESIN.

Applicant : THE DOW CHEMICAL COMPANY, A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A., OF 2030 DOW CENTER, ABBOTT ROAD, MIDLAND, MICHIGAN 48640, U.S.A.

Inventor : RAYMOND ALPHONSE KOENIG; BRIAN WILLIAM ELLIOT.

Application No. 641/Mas/85 filed 16th August 1985.

Convention dated 16th August 1984 (No. 8420816; United Kingdom).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

8 Claims

A process for preparing a novel epoxy resin containing at least 0.25 weight per cent of each of the epoxy groups and the terminal hydroxyl group, said weight per cent being based on the total weight of the epoxy resin reaction product, by reacting a polyepoxide with a polyol in the presence of a known catalyst for the reaction of an epoxy group with a hydroxyl group, wherein the reaction

is terminated at the point when the reaction product contains at least 0.25 weight per cent of each of the epoxy groups and the terminal hydroxyl group.

Compl. specn. 41 pages

Drg. 1 sheet

Int. CLASS¹ : G 06 F 1/00

165309

AN ASSOCIATIVE ARRAY PROCESSOR.

Applicant : ALCATEL N.V., A DUTCH COMPANY, OF DE LAIRESSESSESTRAAT-153, NL-1075 HK, AMSTERDAM, HOLLAND.

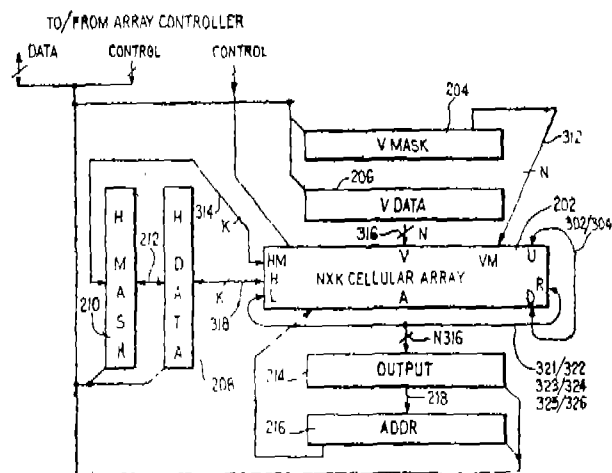
Inventors : (1) RUVEN EDWARD BROOKS, (2) ROSALYN KAM LIN LUM, (3) JOHN MICHAEL COTTON.

Application No. 676/Mas/85 filed August 29, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

13 Claims

An associative array processor comprising single bit processor cells arranged in rows and columns to permit storage of an object in both a row and a column, wherein a relationship between different objects in the matrix is represented by a 1 at the intersection of the row of one object and the column of another object, wherein the associative array processor is adapted to be searched in the association matrix and has means for searching in parallel each row under the column identified with the selected object or searching each column in a row identified with the selected object to identify one of the pre-determined relationships between the selected object and the other objects.



Compl. specn. 22 pages

Drg. 13 sheets

Int. CLASS¹ : B 01 D 29/34

165310

MULTIPLE-DISC FLUID FILTER.

Applicant : PERETZ ROSENBERG, OF MOSHAV BEIT. SHEARIM, ISRAEL, CITIZEN OF ISRAEL.

Inventor : Idem.

Application No. 773/Mas/85 filed October 3, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

11 Claims

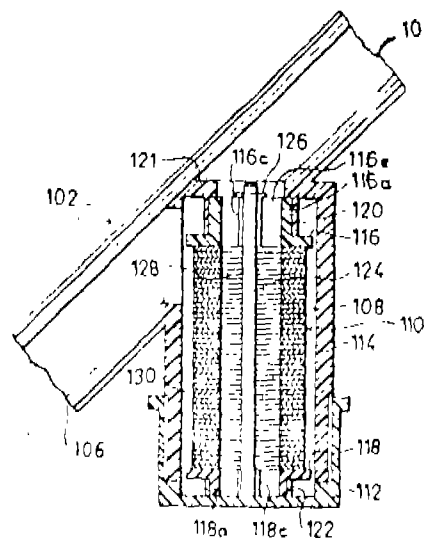
A multiple-disc fluid filter comprising :

a housing having an inlet and an outlet and a plurality of filter discs included in a stack for filtering the fluid flowing between the discs from said inlet to said outlet;

each filter disc being formed with grooves extending only partially through the thickness of the disc and configured to define a continuous, non-apertured surface on one face and a plurality of spaced ribs projecting from the opposite face, with one end of each rib being joined by a bridge to the next adjacent rib at one side thereof, and the opposite end of each rib being joined by a second bridge to the next adjacent rib at the opposite side thereof; said ribs having a straight line edges;

said stack of discs further including spacing means between the confronting faces of adjacent discs of the stack, spacing the straight line edges of the said ribs of one disc from the face of the next adjacent disc in the stack, such that the confronting faces of adjacent discs define a first group of recesses between said ribs communicating with said inlet, a second group of recesses alternating with said first group of recesses and communicating with said outlet, and a plurality of filtering passageways between the straight line edges of said ribs and said opposite face of the next adjacent disc, which straight line edges block the solid particles in the fluid flowing through said first group of recesses and cause them to accumulate in said first group of recesses;

wherein said spacing means comprises a plurality of further ribs formed on the confronting face of said next adjacent discs in the stack and extending substantially perpendicularly to said first-mentioned ribs.



Compl. specn. 19 pages

Drg. 3 sheets

CLASS : 128-F

165311

Int. Cl. : A 61 m 5/24

SYRINGE.

Applicant : DUPHAR INTERNATIONAL RESEARCH B.V., C.J. VAN HOUTENLAAN 36, WEESP, THE NETHERLANDS.

Inventor : GERRIT GROTENHUIS.

Application No. 80 /Cal/1986 filed February 04, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims

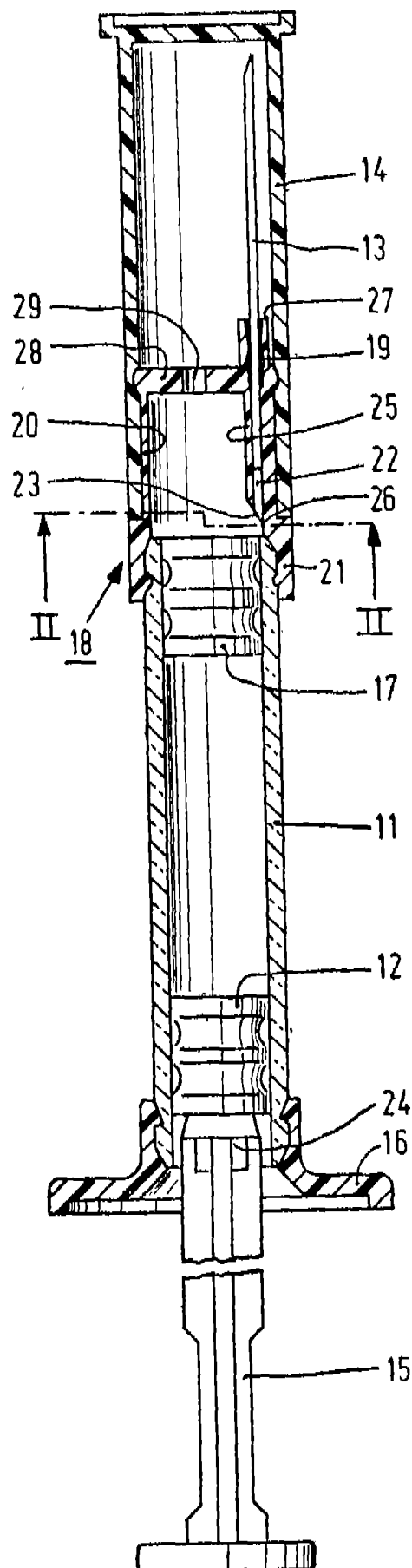
An injection syringe comprising :

a hollow cylindrical ampoule which is open at both ends, a plunger which is movable in ampoule and seals same, a sealing stopper the dimensions of which are such that it can be provided in a sealing manner in the front end of the ampoule, optionally a separating stopper to be provided in the ampoule so as to be movable and in a sealing manner in order to be able to keep two different injection liquids, if present in the ampoule, separated from each other prior to use of the syringe, and a needle holder comprising a collar connected to the front end of the ampoule in a sealing manner, and an inwardly substantially cylindrical sleeve closed at its front end by means of a wall, said end wall comprising on the outside a neck in the aperture of which or to which an injection needle is or can be connected in a sealing manner, the side wall of the sleeve comprising over approximately the full length a longitudinal by-pass means which extends from approximately the edge of the sleeve adjoining the collar to the rear end of the injection needle or the neck aperture, and in which the room bounded by the inner walls of the sleeve, apart from the said by-pass means, has the same rotationally symmetrical but slightly longer shape than the sealing stopper, or, in the presence of a separating stopper, than the sealing stopper and the separating stopper together, and has approximately the same diameter as the inside diameter of the ampoule, characterized in that :

the by-pass means comprises at least one duct recessed in the side wall of the sleeve and communicating said room with said neck aperture of the needle holder, which said duct, from approximately the rear edge of the sleeve over a part of its length considerably smaller than the length of the sealing stopper, is in open communication with said room but for the remaining part is separated therefrom;

an aperture is recessed in the front end of the sleeve in its end wall or in its side wall close to said end wall, said aperture communicating said room in the sleeve with the exterior; and

means are provided to keep the said aperture in the front end of the sleeve, as well as the injection needle or the neck aperture in a sterile condition.



CLASS : 165312

Int. Cl. : H 05 k 7/10.

PLUG-IN AND DISCONNECT AND DEVICE FOR PLUG-IN SUBASSEMBLIES.

Applicant : SIEMENS AKTIENGESELLSCHAFT, OF BERLIN AND MUNICH, WEST GERMANY.

Inventors : (1) EUGEN ASSEL, (2) BURKHARD DASBACH, (3) BERND WEBER.

Application No. 117/Cal/1986 filed February 18, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A plug-in and disconnect aid device for plug-in sub-assemblies of a mechanical arrangement, which can be slid into a rack sub-assembly, with a lever connecting to a plug in sub-assembly by means of an end piece having an axis of rotation of the lever positioned vertically to the insertion plane in the end piece wherein the lever is designed to release a locking element, characterized by :

the lever being designed as a connecting member which by means of a guide piece is positioned in a guide of a first fixed-mounted arm of an end piece;

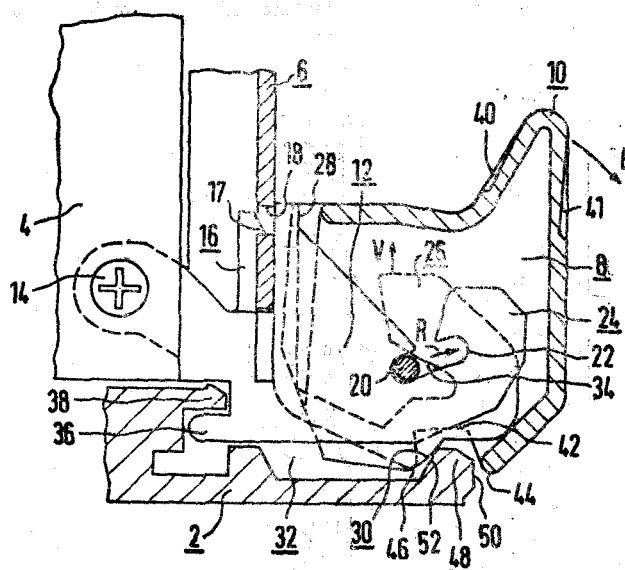
a second arm, parallel to the first arm, is designed with a locking projection spring-mounted in such a fashion that its guide edge mates with the guide piece;

said guide being designed so that a swivel action of the lever produces a motion of the second arm parallel to the insertion plane;

and a first plurality of projection on said lever for cooperating with a transverse rail having a keyway cut herein meaning in a locked position of the lever with a transverse rail projection corresponding to the keyway;

whereby a swivel action of the lever towards the transverse rail causes one of the first plurality of projections of the lever to support itself on an outer surface of the cooperating transverse rail projection and a swivel action of the lever in the direction of a frontal panel of the subassembly, an inner projection of the keyway of the lever to support itself on an inner surface of the cooperating projection of the transverse rail.

5-247 GI/89



Compl. specn. 16 pages

Drg. 2 sheets

CLASS : 32-E

165313

Int. Cl. : C 08 f 1/00, 3/00, 15/00.

AN IMPROVED PROCESS FOR THE SEPARATION OF A SOLUTION COMPRISING α -OLEFIN POLYMER OR COPOLYMER AND INERT HYDROCARBON SOLVENT INTO FRACTIONS.

Applicant : DU PONT CANADA INC., OF BOX 2200 STREETSVILLE MISSISSAUGA, ONTARIO, L 5 m 2 H 3, CANADA.

Inventor : JOHN NELSON YEATES.

Application No. 174/Cal/1986 filed March 10, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

In a solution polymerization process for the manufacture of polymers of ethylene selected from the group consisting of homopolymers of ethylene and copolymers of ethylene and higher α -olefins, an improved process for the separation of a solution comprising α -olefin polymer or copolymer and inert hydrocarbon solvent into fractions comprising :

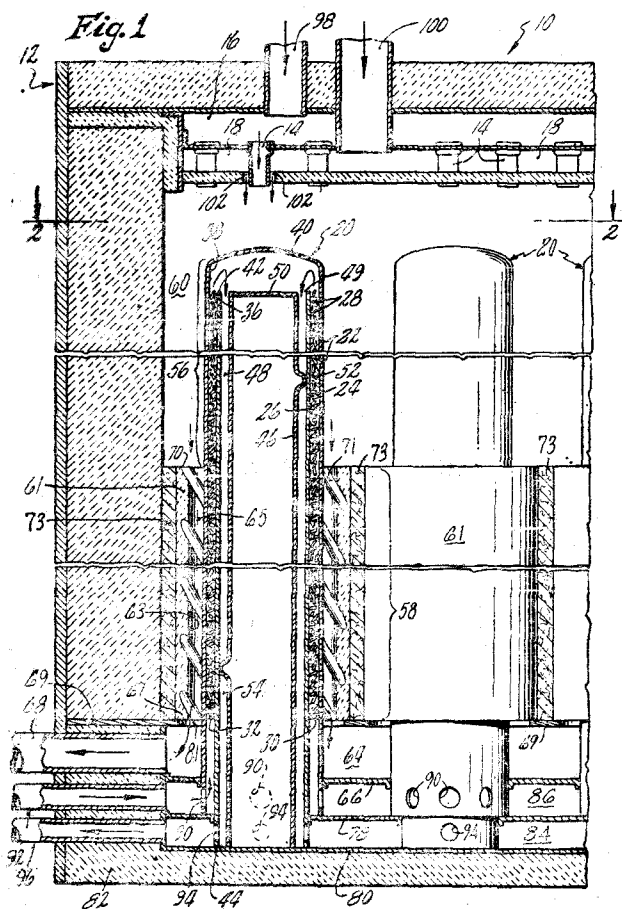
said polymer and said solvent, said solution being at a temperature above 130° and at a pressure above atmospheric pressure;

wherein the pressure of said solution is reduced by passing said solution through pressure reduction means and into a substantially vertical elongated vessel, such that solution passes into the vessel in a downward direction;

said polymer forming a pool of molten mass below said pressure reduction means and said solvent passing in the form of a vapour from the top of said vessel;

the walls of said vessel being maintained at a temperature above the melting point of the polymer, the improvement comprising maintaining the walls of the vessel in the region above said pressure reduction means at a temperature that is at least 10°C

higher than the temperature of the remainder of the walls of the vessel.



Compl. specn. 10 pages

Drg. 2 sheets

CLASS : 40-A,

165314

Int. Cl. : B 01 j 8/00; 10g 35/04.

CATALYTIC REACTION APPARATUS FOR THE STEAM REFORMING OF HYDROCARBON FUEL.

Applicant : UNITED TECHNOLOGIES CORPORATION, RESIDING AT 1 FINANCIAL PLAZA, HARTFORD, CONNECTICUT 060101, U.S.A.

Inventor : OLE LOMHOLT OLESEN.

Application No. 276/Cal/86 filed April 07, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

Catalytic reaction apparatus for the steam reforming of hydrocarbon fuel, comprising a furnace including wall means defining a furnace volume, at least one tubular reactor disposed within said furnace volume, each reactor including an outer cylindrical wall and further including catalyst disposed therewithin :

means for introducing hydrocarbon fuel into each reactor;

means for conducting reaction products away from each reactor;

means for providing hot gases within said furnace volume external of said reactors; and

a tubular radiator of high emissivity material fully surrounding at least a portion of the length of each reactor and coaxial with said reactor, said radiator including a generally cylindrical inner wall having a plurality of adjacent helical channels formed therein, each extending the length of said radiator and around a major portion of the internal circumference of said radiator, wherein the sum of the cross-sectional areas of said channels of each radiator at any cross-section taken perpendicular to the axis of said radiator and said reactor which it surrounds at the location of said cross-section, said catalytic reaction apparatus being constructed and arranged such that all of the hot gases within said furnace volume must..... pass between said radiators and reactors in order to exit said furnace.

Compl. specn. 17 pages

Drg. 2 sheets,

CLASS : 3-A

165315

Int. Cl. : A 231 2/00; A 01 j 11/04;

C 02 f 1/00, 7/00.

AERATOR FOR LIQUIDS.

Applicant : HEINRICH FRINGS GMBH & CO. KG, JONAS-CAHN-STRASSE 9, D-5300 BONN 1, FEDERAL REPUBLIC OF GERMANY.

Inventors : DR. HEINRICH EBNER.

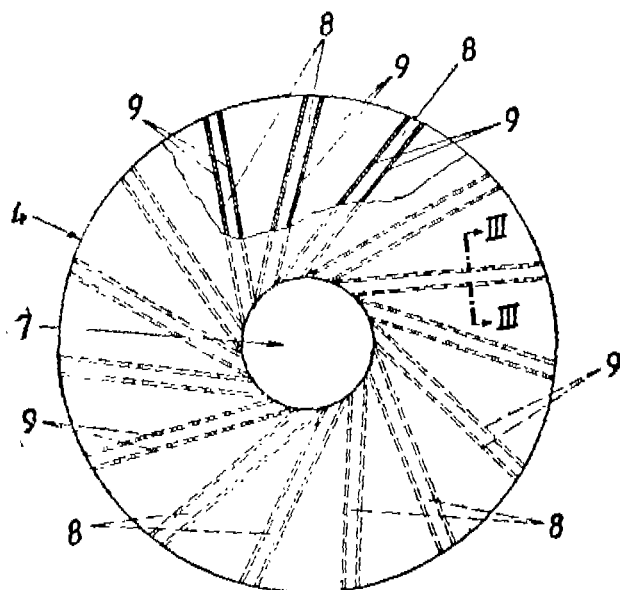
Application No. 378/Cal/86 filed May 19, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

An improved aerator for liquids such as for fermentation of vinegar, waste water purification and for like various uses, which has an air and liquid-mixing rotor having a vertical axis of rotation, and an annular stator encircling the rotor, the stator including a closed pinwheel-like arrangement of cross-sectionally rectangular flow channels for the liquid air mixture, the channels having respective vertical boundary surfaces each of which is inclined in the direction of rotation of the rotor relative to an axial plane passing through each boundary surface at the inner circumference of the stator;

wherein the improvement comprises that the proximate vertical boundary surfaces of each two directly adjacent flow channels diverge or converge relative to each other in the direction of the outer circumference of the stator, and that the two vertical boundary surfaces of each flow channel extend substantially parallel to one another.



Compl. specn. 12 pages

Drg. 2 sheets

CLASS :

165316

Int. Cl. : C 21 c 1/02.

HOT METAL DESULPHURIZING AND DEPHOSPHORIZING PROCESS.

Applicant : CENTRO SPERIMENTALE METALLURGICO SpA. VIA DI CASTEL ROMANO 00129, ROMA, ITALY.

Inventor : GIOVANNI SIRONI.

Application No. 418/Cal/1986 filed June 04, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

Process for continuous desulphurizing and dephosphorizing treatment of hot metal at the tapping stage thereof from blast furnace, characterized in that the liquid hot metal tapped from the blast furnace and duly deslagged in the usual manner is continuously treated with agents, such as herein described, blown into a launder down which the hot metal flows.

Compl. specn. 10 pages

Drg. Nil

CLASS : 64-B₁.

165317

Int. Cl. : A 01 r 4/00, 9/00, 11/00, 13/00.

A JIG FOR ASSEMBLING ELECTRICAL COMPONENTS.

Applicant : SIEMENS AKTIENGESellschaft, OF WITTELSBACHER-PLATZ 2, D-8000, MUNCHEN 2, WEST GERMANY.

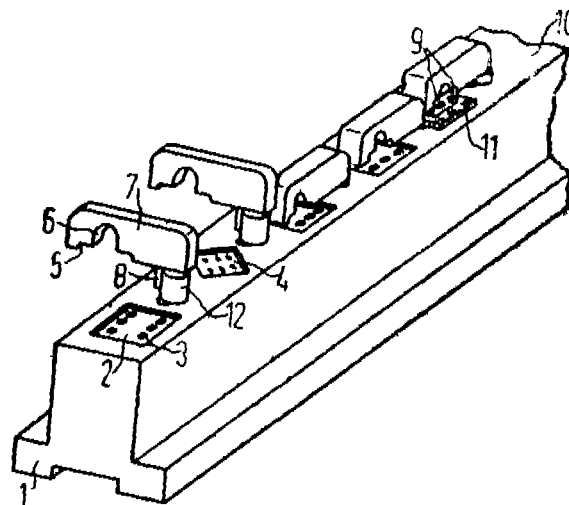
Inventors : FRANZ KOLLER.

Application No. 453/Cal/1986 filed June 18, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims

A jig for assembling electrical components, e.g. biperforate core coils and/or annular core coils, which are to be used in particular in film circuits, on a terminal carrier plate which preferably consists of ceramic material and is provided with a plurality of terminal contacts, in which a plurality of recesses are arranged in a row along the flat upper side of a strip of synthetic material, each recess corresponding to the dimensions of a terminal carrier plate and serving to accommodate the terminal carrier plate and a spring-mounted clamping lever is arranged beside each recess on the strip, which lever can be elevated and/or pivoted and by means of each of which a component (e.g. a biperforate core coil or annular core coil) may be clamped in a fixed and predetermined position above a terminal carrier plate which has been previously inserted into its associated recess, so that in this clamped state the component in question e.g. the coil, may be bonded onto the terminal carrier plate in the recess and its terminals, e.g. the winding ends of the coil, can be welded by thermo-compression to the terminal contacts of the terminal carrier plate.



Compl. specn. 9 pages.

Drg. 1 sheet

CLASS : 32-F_{2a}

165318

Int. Cl. : C 01 c 161/00.

PROCESS FOR THE PREPARATION OF 3-(ACYL) AMINO-4-ALKOXYPHENYL-β-HYDROXYETHYL - SULFONE (SULFATES).

Applicant : HOECHST AKTIENGESELLSCHAFT, OF D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY.

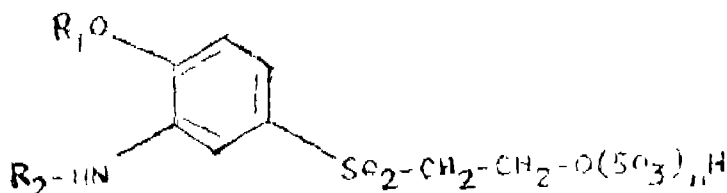
Inventors : (1) PETER HESS, (2) FOLKER KOHL-HAAS, (3) THEODOR PAPENFUHS.

Application No. 629/Cal/85 filed September 02, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

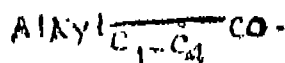
1 Claim

A process for the preparation of 3-(acyl) amino-4-alkoxy-phenyl-β-hydroxyethyl-sulfone (sulfates) of the formula (1) of the accompanying drawings

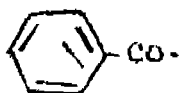


Formula (1)

In which R_1 is an alkyl group having 1-4 carbon atoms and R_2 has a hydrogen atom or a grouping from the series shown in formula (8) to (14)



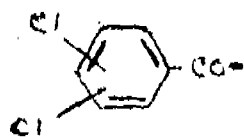
Formula (8)



Formula (9)



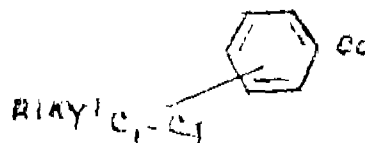
Formula (10)



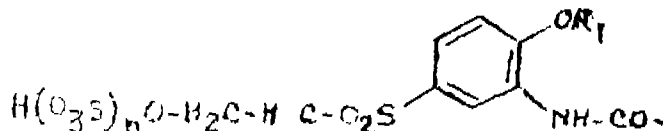
Formula (11)



Formula (12)

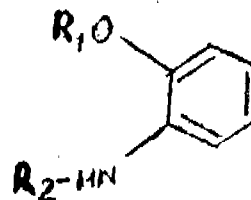


Formula (13)



Formula (14)

with the proviso that $n=1$ if $R_2=H$ and $n=0$ if $R_2=acyl$, which comprises converting 2-alkoxyacylanilines of the formula (2)



Formula (2)

in which R_1 and R_2 have the meanings given above, in a known manner to the corresponding sulfohalides substituted in the p-position relative to the alkoxy group, reducing the sulfohalides with alkali metal sulfite or ammonium sulfite in an aqueous medium at a pH value of 7.0-8.5 and at a temperature of -5 to $+40^\circ\text{C}$ to give the corresponding sulfonates, alkoxyating the latter with ethylene oxide in an aqueous medium at a pH value of 6.0-8.5 and at a temperature of $40-80^\circ\text{C}$ to give the 3-acylamino-alkoxy-phenyl-β-hydroxyethyl-sulfones of the said formula (1) (with $R_2=acyl$ and $n=0$) and which by esterifying, with deacylation, using concentrated sulfuric acid at a temperature of $70-150^\circ\text{C}$ gives the compounds of the said formula (1)

(with $R_2=H$ and $n=1$).

Compl. specn. 13 pages.

Drg. 1 sheet

CLASS :

165319

(with $R_2=H$ and $n=1$).

DEVICE FOR DIRECTIONAL PROTECTION OF POWER TRANSMISSION LINES WITH CARRIER-CURRENT RELAYING.

Applicant : GOSUDARSTVENNY NAUCHNO-ISSLEDOVATELSKY ENERGETICHESKY INSTITUT IMENI G.M. KRZHIZHANOVSKOGO, OF LENINSKY PROSPEKT, 19, MOSCOW, USSR.

Inventors : (1) IOSIF NIKOLAEVICH POPOV, (2) VLADIMIR FEDOROVICH LAUCHUGIN.

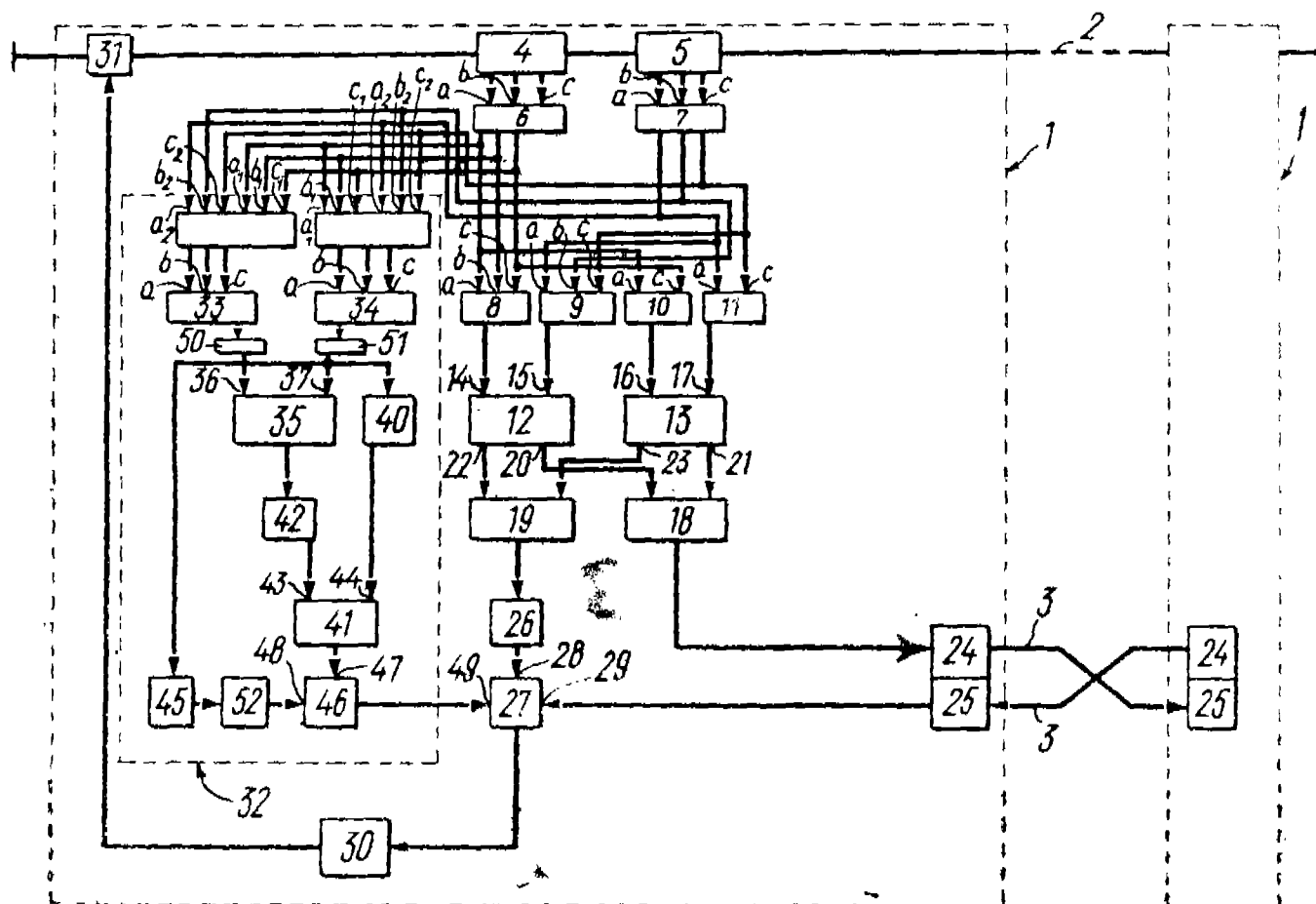
Application No. 758/Cal/1986 filed October 17, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

1 Claim

A device for directional protection of a power transmission line by carrier-current relaying and using a signal channel, comprising phase current and voltage measuring transducers installed in the protected power line, filters of fault components of phase currents and voltages, first, second, third, and fourth adders, first and second comparator circuits, a first OR element whose first input is connected to a first output of the first comparator circuit, while a second input thereof is connected to a first output of the second comparator circuit, a second OR element whose first input is connected to a second output of the first comparator circuit, while a second input thereof is connected to a second output of the second comparator circuit, a receiver, and a transmitter, the input of the transmitter being connected to an output of the first OR element, a first delay element whose input is connected to an output of the second OR element, a first inhibition element whose information input is connected to an output of the first delay element, and whose first controlled input is connected to an output of the receiver, an actuator whose input is connected to an output thereof is connected to the circuit breaker of the protected power line, the output of the transmitter and the input of the receiver being connected to the signal channel, a lighting disturbance tune-off unit comprising fifth and sixth adders, and a third comparator circuit whose inputs are connected, via first and second full-wave ripple-filter rectifiers, to respective outputs of the fifth and sixth adders whose inputs are electrically coupled with outputs of the filters of fault components of phase currents and voltages, a first threshold element, and AND element, the input of

the first threshold element being connected with the output of the second full-wave ripple-filter rectifier, while the output thereof is connected to the first input of the AND element, a storage element whose input is connected to an output of the third comparator circuit, while the output thereof is connected to a second input is connected to an output of the second full-wave ripple-filter rectifier, a second inhibition element whose information input is connected to the output of the AND element, and whose controlled input is connected, via a second delay element, to an output of the second threshold element, while the output thereof is connected to a second controlled input of the first inhibition element, two switches whose inputs are connected to respective outputs of the filters of fault components of phase currents and voltages, the outputs of the first switch being connected to inputs of the fifth adder, while the outputs of the second switch are connected to inputs of the sixth adder, the inputs of the filters of fault components of phase currents and voltages being connected respectively to the outputs of the measuring transducers of phase currents and voltages, while the inputs of the first and third adders are connected respectively to the outputs of the phase current fault component filter, the inputs of the second and fourth adders being connected respectively to the outputs of the phase voltage fault component filter, the first input of the first comparator circuit is connected to the output of the first adder, while the second input thereof is connected to the output of the second adder, the first input of the second comparator circuit being connected to the output of the third adder, while the second input thereof is connected to the output of the fourth adder.



CLASS : 108-Ca

165320

REGISTRATION OF DESIGNS

Int. Cl. : F 27 b 1/20.

CHARGING ARRANGEMENT FOR A BLAST FURNACE.

Applicant : ZHDANOVESKY METALLURGICHESKY INSTITUT, OF UL'ISA APATOVA, 115, ZHDANOV, USSR.

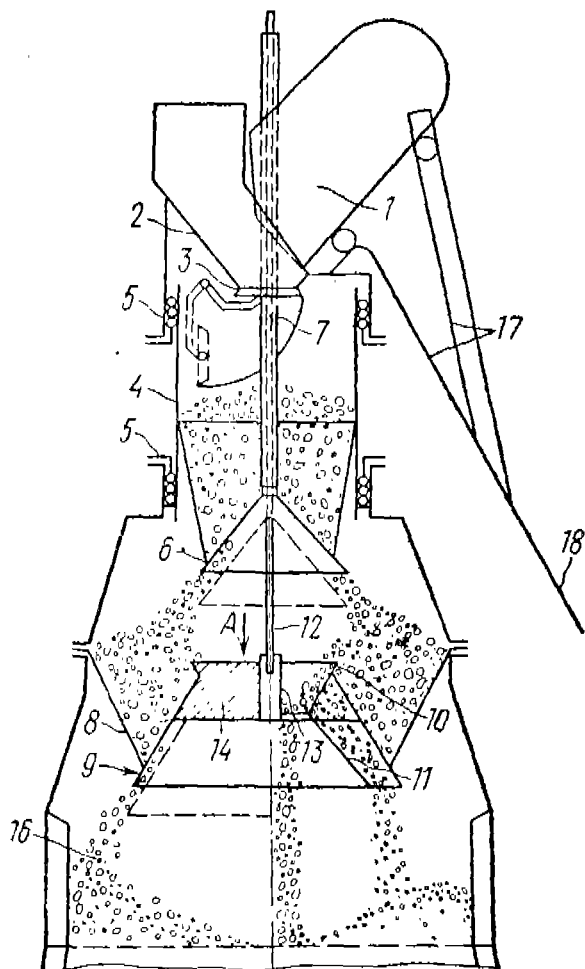
Inventors : (1) VLADIMIR PETROVICH TARASOV, (2) STANISLAV TIKHONOVICH PLISKANOVSKY, (3) EVGENY ALEXANDROVICH TSARITSYN, (4) IGOR MIKHAILOVICH PEFTIEV, (5) VALENTIN ANATOLIEVICH KALACHEV, (6) SERGEI VLADIMIROVICH TARASOV, (7) MIKHAIL VASILIEVICH LIKHACHEV, (8) IRINA LEONIDOVNA TSYGANOK.

Application No. 839/Cal/86 filed November 18, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

1 Claim

A charging arrangement of a blast furnace, wherein outlet ports of pots disposed one after another in the direction of charge flow are shut-off by seals having a conical periphery which are mounted for reciprocations, the seal shutting-off the lower pot being in the form of a hollow truncated cone, a funnel being secured to the top part thereof and having its narrowing portion received in the interior of the truncated cone, characterized in that profiled opening are made in the wall of the funnel over the whole area thereof, and a screen is disposed under, and adjacent to the funnel, the screen being in the form of a hollow truncated cone having its smaller base on the funnel side.



Compl. specn. 14 pages

Drg. 2 sheets

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. Nos. 160711 & 160712. INFIME S.A., a Spanish Company of Rosario Pino, 14-Planta 17. 28020 MADRID, Spain a "Wrench". 8th February, 1989.

Class 3. Nos. 161008 & 161011. Niranjan Plastics, 19/1, Botawala Bldg, Sitladevi Temple Road, Bombay-16, Maharashtra, India, an Indian Proprietary firm. "Carboys". 24th May, 1989.

Class 3. Nos. 160753 to 160757. Interlego A.G., a Swiss Company of Sihlbruggstrasse 3, CH-6340 Baar, Switzerland. a "Toy Building Element". 24th February, 1989.

Copyright Extended for the Second period of five years.

Nos. 158397, 158495, 158496, 158986, 158992
158933, 151831, 154627, 152175,
158990, 154037, 159814, 159547Class 1.

Nos. 154556, 158803, 158995, 154241,
158804, 160340, 160041, 159948,
159053, 159214. Class 3.

Nos. 153110, 153106, 153107, 153108,
154238, 160023. Class 4.

Nos. 158880, 158050.Class 5.

No. 154569. Class 6.

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Nos. 158397, 158495, 158496, 158986, 158992.
158933, 158990, 159814, 159547.....Class 1.

Nos. 147761, 154556, 158803, 148789,
158995, 158804, 148791, 148671,
148767, 148667, 148689, 148690,
148604, 160340, 160041, 159948,
159053, 159214.Class 3.

No. 160023. Class-4

Nos. 158880, 158050. Class 5.

R. A. ACHARYA

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